

AT GUELPH

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University of Guelph, Guelph, Ontario Jan. 12, 1994

FIRST GLANCE

Ring in the new!

A new year arrives. And with it comes a new, fresher look for *At Guelph*, aimed at making the publication easier to read. In February, *At Guelph* will run a readership survey, inviting comments on everything from how we look to how we cover the news. Don't miss this chance to make your opinions known. Everyone who fills out a survey will be eligible for a draw for prizes. Stay tuned for further details.

Welcome back!

It's back to the books this week for U of G's 15,000 students. Have a great winter semester!

The gift of life

The Canadian Red Cross is reporting a severe shortage of blood across southern Ontario and is asking for donations of all blood types. A blood donor clinic will be held Jan. 17 from 10 a.m. to 3:15 p.m. in Peter Clark Hall.

Inside:

Eight task forces to tackle strategic planning . . . 2

An ounce of prevention is worth a pound of detention . . . 3

Release of Sulawesi report on Senate agenda . . . 5

When retirement becomes an art . . . 8

Included with this issue of *At Guelph* are a special supplement on the Macdonald Stewart Art Centre and an insert from the Bookshelf Cinema.

Thought for the week

Wonder rather than doubt is the root of knowledge.

Abraham Heschel

Re-Discover
**DOWNTOWN
GUELPH**

Phase 2 of Research Park Centre is a go

by Owen Roberts and Steve O'Neill
Office of Research

An agreement between U of G and one of Canada's largest manufacturers of animal-health products is good news for the University's Research Park Centre. It means the centre can go ahead with a 20,000-square-foot second phase worth nearly \$2 million.

Elanco Animal Health and Provel, a division of pharmaceutical leader Eli Lilly, have entered an agreement with U of G for 10,000 square feet of space in Phase 2 of the centre.

Prof. Larry Milligan, vice-president for research, says the University wanted to secure a major tenant before embarking on a second

phase; the Elanco/Provel agreement was the impetus it needed. The company's commitment means the two-storey addition is at 50-per-cent occupancy even before the ground is broken.

"Elanco and Provel's decision to join the centre was an essential factor in proceeding with Phase 2," says Milligan. "These companies are part of one of the world's foremost life-science research firms, and their presence in the Research Park Centre will be a great asset to Guelph's research community."

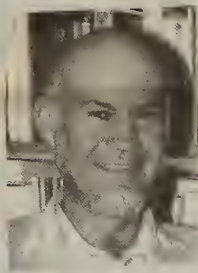
He adds that the companies' proximity to U of G "will provide new opportunities for interaction between faculty, staff and students and this agricultural industry."

The expansion is a project of the U of G Heritage Fund and will not affect the University's operating budget. The fund was created to help ensure the future of high-quality education at Guelph.

Phase 2 will be located adjacent to Phase 1, on what is now the grassed area to the east of the building. It will be completed by late summer. Phase 1 of the centre, a 40,000-square-foot three-storey building, opened in the summer of 1991. It reached maximum occupancy in October 1993 when the Institute for Instructional Technology — the centre's 10th tenant — leased the last remaining space. The in-

See ELANCO on page 2

Kasha named to Order of Canada



Prof. Ken Kasha

Prof. Ken Kasha, Crop Science, was among 80 appointments to the Order of Canada announced last week. A faculty member at U of G since 1966, he was named one of 23 officers of the Order for his work in the field of science.

Known for his work on developing a system for breeding pure barley lines and on developing resistant forms of barley, Kasha was founding

director of U of G's Plant Biotechnology Centre from 1984 to 1987. He currently co-ordinates the Canadian portion of the North American Barley Genome Mapping Project, which involves 48 scientists dedicated to producing better barley.

In 1983, he won the prestigious Ernest C. Manning Award for outstanding innovation by a Canadian. He received an honorary doctor of laws from the University of Calgary in 1986 and was elected a fellow of the Royal Society of Canada in 1990.

Kasha says he is "very pleased and really greatly honored" to be appointed to the Order. He notes, however, that he did not come to this honor alone.

"It's not just me — it's a lot of people who have been involved over the years. I've had tremendous support in this department and at the University. Department chairs and administrators have been willing to listen and accommodate. Lab people have been excellent. This all adds up to a successful research program."

Kasha's work has put U of G and Canada in "the spotlight of world plant genetics," says acting academic vice-president Iain Campbell. "His work has long been recognized in the scientific community, but this award now recognizes his contributions to Canadian society as a whole."

Kasha will receive the Order of Canada April 13 at a ceremony in Ottawa. □



Stay tuned

Harpsichord maker Willard Martin of Pennsylvania tunes up his latest creation in its new home in the Department of Music. The instrument was purchased with support from the Alma Mater Fund. Sandra Mangsen of the

University of Western Ontario, along with department chair Prof. Mary Cyr on viola da gamba and UWU's Richard Semmens on recorder, will give the first performance on the harpsichord at a noon-hour concert Feb. 17.

Photo by Maurice Oishi, University Communications



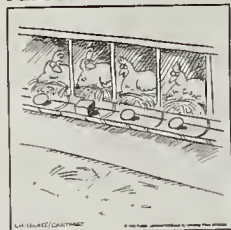
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LETTERS

A fond farewell

I wish to extend sincere thanks to everyone who attended or contributed to my retirement party in December. I also wish to thank those who sent the many letters, cards and best wishes in other forms.

I have enjoyed my 26 years on campus, most of it in the OAC dean's office. My position as secretary to the dean of OAC has meant a lot of interaction with many units on campus, and I appreciate the co-operation and help I have always received. A special thanks to chairs, directors, faculty, staff and students in OAC. Your support will never be forgotten. Keep up that Aggie spirit!

May James

Kindness is
appreciated

I would like to express my heartfelt thanks and sincere appreciation for the sympathy and support of friends following the recent death of my husband, Lee. The many kind words, tributes and remembrances have sustained me in my time of sorrow. I will always remember everyone's thoughtfulness.

Judy Wansbrough
Financial and
Administrative Services

Recycle
This
Newspaper



Eight task forces to focus on strategic planning

The Strategic-Planning Commission has set up eight task forces to undertake the analysis associated with Phase I of its work.

The task forces and their mandates were outlined in a Dec. 16 letter inviting staff and faculty to sit on the task forces. The letter is going out to students this week.

The commission has been charged with developing recommendations about the mission and future direction of U of G over the next decade and with developing an ongoing process for reviewing and implementing these recommendations.

Three of the task forces will examine trends in society at large and how they apply to U of G. These environmental scan groups will identify and analyse the threats, constraints and opportunities the University will face over the next decade from:

- economic and technological forces;
- social, demographic and educational forces; and
- political and legal forces.

The group looking at political and legal forces will also study U of G's public image and competitive/ collaborative position vis-a-vis other postsecondary institutions.

A fourth task force will tackle an assessment of values and institutional climate/culture. It will identify and analyse the personal values of members of the University community that contribute to a sense of institutional values. This overlaps with an assessment of institutional climate or culture, including such issues as morale, the purpose of a university education and the commitment to learning, scholarship and service.

The remaining four groups will examine the University's strengths and weaknesses. One will focus on Guelph's aggregate human resources (including training, diversity and age profile), its financial situation and its physical plant (including deferred maintenance, safety and classroom configuration). A second will look at administrative and academic support, a third will examine ser-

vices to students, and the fourth will look at academic programs and research.

In this final group, four subcommittees will focus on the arts and humanities, social sciences, natural sciences and professional programs. They will assess the strengths and weaknesses of faculty as well as existing units. This task force will also gather data on faculty workloads and examine how the structure of colleges and departments aids or impedes the development and delivery of curriculum and research.

The work of all the task forces is to focus on implications for institutional action.

Nominations and volunteers for the task forces are invited by Jan. 14. Names should be submitted to Brian Pettigrew at Ext. 3195 or Barbara Abercrombie at Ext. 6761. Anyone who did not receive the Dec. 16 letter or would like more information should call Pettigrew or Abercrombie. □



UGSA elects new executive

Members of the 1993/94 executive of the U of G Staff Association are, from left, second vice-president Sheila Trainer, chief representative John Van Esch, first vice-president Alan Miller, president Dave Robinson, member-at-large Kathleen

Hyland, member-at-large Kathleen Cummins, treasurer Eunice Cummings and recording secretary Wendy Langlois. Missing from photo is past president Diane Boyd.

Photo by Herb Rauscher, Photographic Services

Sigma Xi to
honor prof

The Guelph chapter of the Sigma Xi Society will present its annual Excellence in Research award to Prof. Derek Bewley.



Derek Bewley

Botany, at an awards banquet Feb. 2 at the Victoria Park Golf Club.

Before the banquet, Bewley will give a lecture on "The Drying Game" at 4:10 p.m. in Room 100 of the Axelrod Building.

Tickets for the banquet, where awards will also be presented for research support, outstanding graduate theses and high school teaching, are \$25 general, \$15 for graduate students. They are available from departmental Sigma Xi representatives or from Prof. Stan Blecher, Molecular Biology and Genetics, Ext. 3424. □

Elanco/Provel is major new tenant in Research Park

Continued from page 1

stitute was the fourth new tenant in as many months.

"Business and industry are impressed with the quality of the facilities and the connection to the University," says Milligan.

"They believe in the University of Guelph's future and in the Research Park's commitment to forging research and development links with other organizations."

Phase 2's first tenant, Elanco/Provel, continues the strong research connection. Since its founding in 1961, Elanco has been a world leader in animal-health innovations, investing about \$50 million U.S. a year in research worldwide. This has led

to innovative products such as Coban, Rumensin and Tylan for livestock and poultry.

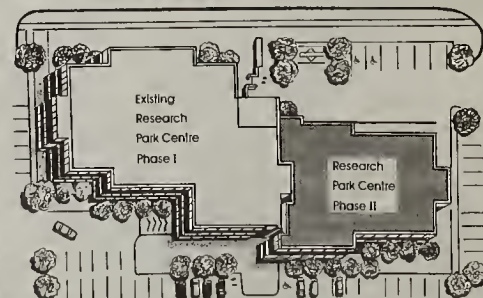
Provel was established to provide veterinary professionals with leading-edge pharmaceutical products such as Micotil, a single-injection antibiotic treatment that is used for bovine respiratory disease.

Elanco/Provel's investment in research has extended to U of G, with the company sponsoring such projects as a study led by Prof. Ken Leslie, Population Medicine, on the treatment of mastitis in dairy cows.

"The new location will provide Elanco and Provel with access to very sophisticated research facilities as we strengthen our

commitment to the Canadian livestock industry," says David Gordon, director of Elanco Animal Health/Provel. "Guelph is Ontario's centre for agribusiness,

animal agriculture and agricultural education and offers new potential for links among industry, research and the farming community." □



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of GUELPH

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SENATE

Guelph is making headway on 1993/94 budget problem

Senate received for information Dec. 21 a revised \$152-million Ministry of Education and Training (MET) operating budget for the last six months of this fiscal year.

John Miles, director of Financial and Administrative Services, walked senators through the budget and explained the deficit that arose from implementing the social contract and how this deficit is being addressed.

President Mordechai Rozanski outlined some of the fiscal unknowns in the new year. He alerted senators that the government is signalling that cuts in transfer payments will continue in 1994 by at least \$24 million. U of G's share of the anticipated cut would be about \$1.4 million.

Guelph is also waiting on MET's announcement about tuition-fee levels. Rozanski said the transfer payment and tuition news is expected later this month.

Also still up in the air is what the government intends to do about no longer funding additional qualifications (AQs), courses offered to teachers for qualification and upgrading. Withdrawing AQ support would result in a reduction of \$58.5 million in provincial funding — a reduction that would be phased in over four years, with the first hit of 10 per cent (\$5.9 million) having been allocated to participating universities only in 1993/94.

Guelph, Carleton, McMaster, Waterloo, Wilfrid Laurier and

Trent universities do not offer AQs and are strongly opposed to being part of the remaining reduction. If included in the cut, Guelph would lose \$1.12 million in provincial grants in 1994/95, \$2.27 million in 1995/96 and \$3.39 million in 1996/97.

Another unknown, Rozanski told Senate, was the increased cost of UIC benefits. Since then, the University has learned that UIC costs will go up by seven per cent.

Remains optimistic

The president told Senate he remains optimistic about the future and stressed that these uncertainties make strategic planning even more relevant. "I still feel we can — working together — meet these challenges in creative ways," he said.

As a result of the social contract, Guelph has a \$10.1-million budget deficit to resolve in 1993/94.

Over the summer, several actions helped reduce the projected deficit, said Miles. U of G received a 20-per-cent "discount" (\$1.1 million) on the social contract because employee and student groups signed a three-year agreement before the July 31 deadline.

Three other key cost-reducing actions were incorporated into the social contract: an employer-only "holiday" or suspension of pension contributions for three years starting in the 1993/94 fiscal year

(\$4.9 million); a general three-year freeze on all salary increases in excess of \$30,000 a year and net benefit improvements (\$1.9 million); and up to three days of unpaid leave for all employees whose annual salaries exceed \$30,000 (\$1.2 million).

The remaining \$1 million required to balance the annual budget will be covered from a variety of sources, including salary savings on unplanned vacancies that are removed from departmental budgets. By the end of August, some \$562,000 had been found from these sources. The remaining \$438,000 will have to be found in vacancies and other areas during the remainder of the fiscal year, said Miles.

The revised 1993/94 MET operating budget presented to Senate projects \$150 million in revenues and \$152 million in expenses. In addition, departments and units are holding some \$3 million in unspent funds from the previous fiscal year. The net effect is a projected surplus of \$1 million, which Board of Governors had directed the University to achieve by the end of the year and to apply against the cumulative deficit of \$5.5 million.

Miles advised senators that this action was in accord with the five-year budget plan to reduce the deficit to \$4.5 million by April 30, 1994, and to eliminate the deficit by the end of 1996/97. □

Courses 'en français' put on hold

Senate agreed Dec. 21 that no additional courses "en français" will be offered at U of G for the present. But this "present" was left vague so that future offerings will be possible should funding and demand warrant it.

Senators also decided that the co-ordinator of the Office of French-Language Services should remain in an honorary capacity. Prof. Maura Dubé now holds this position and her responsibilities will be to monitor La Maison Française activities and increase the residence's visibility, as well as to ensure the continuity of any French-language services that may be offered in the future.

Senate struck a Board of Undergraduate Studies (BUGS) subcommittee in 1985 to study undergraduate courses "en français" at U of G. It was then that the position of co-ordinator was established. In 1992, Senate directed (BUGS) to produce a revised plan for a more efficient and effective program for offering courses "en français."

Prof. Tammy Bray, acting associate vice-president, academic, told Senate that despite efforts to advertise and promote the "en français" course offering in fall 1987, fewer than 10 students registered. Since 1987, U of G has offered 14 of these courses, but only 182 students have enrolled.

Although the current situation is not conducive to offering courses "en français," the subcommittee believes it would be short-sighted to discontinue all efforts in this area, particularly in light of the growing support for "internationalizing" programs.

The subcommittee hopes that by merely putting a hold on course offerings and by maintaining the co-ordinator position, the University can continue to show its support for French as one of Canada's official languages.

In other BUGS business, Senate agreed that all students registered in study-abroad and exchange programs should be required to pay full-time fees

regardless of the number of courses taken abroad. Refunds will be available only on recommendation from the program co-ordinator and only if courses are dropped on medical or compassionate grounds. This requirement will become effective in the fall of 1994.

An agreement for a Swedish exchange program open to landscape architecture students was received for information (Watch for more details in an upcoming issue of *At Guelph*.)

Other business

Senate received for information the 1993/94 Ministry of Education and Training budget (see related story) and the annual report of the Centre for International Programs.

Senators learned that the appraisals committee of the Ontario Council on Graduate Studies has classified Guelph's MA program in political studies as good quality and has approved continuation of the collaborative MA program in public policy and public administration at U of G and McMaster University.

Senate approved the appointment of general studies student Daniel Blandford to the Senate Committee on Student Development and the addition of the vice-president for University affairs and development to the Senate Awards Committee as an ex-officio member.

Senate also approved seven new student awards:

- Gloria Guthrie Memorial Scholarship.
- Dimensions Prize (Art History).
- Psychology Core Awards.
- Psychology Department's Award for Academic and Extracurricular Excellence.
- Psychology Honors Thesis Award.
- Psychology Senior Honors Award.
- Warner-Lambert Printmaking Scholarship. □



Const. Robin Begin is out of the patrol car and into lecture halls and residences in her effort to prevent crime on campus.

Photo by Maurice Oishi, University Communications

Campus Police appoints community liaison officer

by Maurice Oishi
University Communications

It's a change of uniform for Const. Robin Begin, but it signifies an evolving facet of Campus Police.

Begin is the unit's first community liaison officer. The position puts more emphasis on crime prevention through education and information than on the more conventional aspects of policing such as law enforcement, she says.

Created by Keith McIntyre, director of Security Services, the position takes Begin — a four-year member of Campus Police — out of the patrol car and into lecture halls and residences.

"We saw a need to enhance the relationship between the police and the community at large," she says. Part of that role is to ensure that people know how to prevent a crime, as opposed to having to report it. Adds McIntyre: "Policing has to involve the whole campus."

Through seminars and discussion groups, Begin hopes to address broad issues as well as specific ones that might be of interest to particular groups. Last semester, she began a series of seminars catering mainly to female students who drive alone on how to avoid trouble in the case of roadside breakdowns and how to prevent mechanical problems in the first place. An information package sponsored by Speedy Muffler King includes a coupon for a free car inspection.

Although crime prevention is the focus of her work, Begin acknowledges that communication must run two ways. She'll use CoSy and TCoSy to tap into the campus community, both to inform people about what's happening and to reap what information they might provide.

Another avenue lies in revitalization of crime bulletins, the handbills posted in buildings

where crimes have been reported. Although the bulletins spur vigilance, they also aid police directly, she says. "Often people don't realize they've seen a crime until they read about it."

McIntyre notes that emphasizing community involvement and addressing campus issues are high on his agenda. Outreach programs like the highly touted bicycle patrols are the essence of what he'd like to cultivate on campus.

To meet the needs of campus, a second female police officer has been hired. "My overall plan is that Campus Police will reflect the makeup of the community we serve," he says.

A needs survey of the campus community, created and administered by psychology graduate students and scheduled for this semester, will also help Security Services learn how it can better serve the campus, McIntyre says.

So far, feedback on the community liaison officer position has been encouraging. Roland Hanel, co-ordinator of the campus Safe Walk program, says that although Begin has only been in her new post a short time, she has already proven an asset.

"We deal so closely with the police, we really needed a go-between," says Hanel. "She's very enthusiastic towards her position as well as her interaction with Safe Walk."

Sexual and gender harassment adviser Valerie du Plessis also lauds Begin for her enthusiasm and approachability. "She's already got a good rapport with the community," says du Plessis.

Human rights adviser Indira Ganasellal adds her endorsement to the new position. "I think that's the kind of interaction with community that we need," she says. "I think that's something that all police officers should be involved with." □

Student research writers receive federal support

by Kerith Waddington
Office of Research

A federal agency is giving its support to U of G's unique student research-writing program, Students Producing Articles on Research Knowledge (SPARK).

Agriculture and Agri-Food Canada officials came to campus recently with a one-year pledge for the SPARK program, which is co-ordinated by the Office of Research.

Frank Marks, director of Agriculture and Agri-Food Canada's London research centre, whose jurisdiction includes the Guelph area, says SPARK's mandate to involve students in communicating research accomplishments to society at large complements his department's commitment to informing the public about important research activity.

"There is a need for agricultural research to be made as accessible

as possible," he says. "This co-operative endeavor between the federal government and the University of Guelph will promote the importance and benefits of agri-food research to a large and diverse audience, and help develop science and agriculture writers versed in making research results understandable to a wide audience."

SPARK gives students from varying academic backgrounds an opportunity to develop their communication skills through interviewing and writing. Initiated in 1988 with the support of the Ontario Work Study Plan, the program generates stories underlining U of G research accomplishments and activity.

Seven student writers are part of the SPARK program. Their academic streams include engineering, zoology, English and political science. Participants Andres Kahar and Steve O'Neill were recently recognized for news release writing by the Canadian Farm Writers Federation.

"SPARK-generated stories receive wide circulation through news releases, *Research* magazine, *At Guelph* and other special publications," says program originator and co-ordinator Owen Roberts. "Sponsors become part of a very effective program."

Other sponsors are Pioneer Hi-Bred and OAC. □

Free computing seminars available

Computing and Communications Services (CCS) is again offering free seminars on information technology topics for members of the University community. The series is presented in collaboration with Teaching Support Services and the U of G Library.

Seminars last about two hours and are held in Room 203 and 204 of CCS, located just off Trent

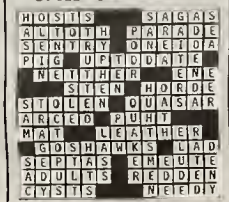
Lane. Registration begins Jan. 17. Space is limited, so register early by calling Ext. 3713 or visiting CCS weekdays between 9 a.m. and 4 p.m. For full descriptions of the seminars, drop by CCS during working hours, beginning Jan. 13.

Hands-on seminars are indicated by an asterisk. +++ indicates that a Unix ID is required for participation.

| Title | Date | Time | Code |
|---|--|--|--|
| Absolute Beginner's Guide to WordPerfect* | Jan. 24 Jan. 25 | 10 a.m.-noon 6-8 p.m. | wpbeg1 wpbeg2 |
| Beginner's Guide to Using Your Personal Computer and DOS* | Jan. 24 Jan. 26 Jan. 27 | 2-4 p.m. 6-8 p.m. 10 a.m.-noon | doshd1 doshd2 doshd3 |
| NEW Getting Going with the New Central Computing Environment | Jan. 24 Jan. 25 Jan. 27 Jan. 31 | 6-9 p.m. 1-4 p.m. 1-4 p.m. 1-4 p.m. | unix01 unix02 unix03 unix04 |
| NEW Intro to Central Electronic Mail* +++ | Jan. 27 Jan. 28 Jan. 31 Feb. 1 | 6-8 p.m. 10 a.m.-noon 10 a.m.-noon 2-4 p.m. | email1 email2 email3 email4 |
| Intro to Windows* | Jan. 28 Feb. 1 Feb. 4 | 2-4 p.m. 6-8 p.m. 2-4 p.m. | wind01 wind02 wind03 |
| Intro to Quattro Pro* | Jan. 31 Feb. 2 Feb. 3 Feb. 7 | 6-8 p.m. 2-4 p.m. 2-4 p.m. 2-4 p.m. | quatt1 quatt2 quatt3 quatt4 |
| Intro to SPSS* (two parts)+++ WP Formatting* (two parts) | Feb. 2 & 4 Feb. 2 & 3 Feb. 14 & 15 Feb. 3 | 10 a.m.-noon 6-8 p.m. 2-4 p.m. 10 a.m.-noon | spss01 wpfmt1 wpfmt2 unspss |
| NEW Making the Transition from CMS to UNIX for SPSS+++ NEW Making the Transition from CMS to UNIX for SAS+++ | Feb. 7 Feb. 8 Feb. 23 March 2 | 6-8 p.m. 6-8 p.m. 10 a.m.-noon 10 a.m.-noon | unsas1 unsas2 unsas3 unsas4 |
| NEW Exploring Internet Where do you start?* | Feb. 10 Feb. 21 March 7 | 2-4 p.m. 10 a.m.-noon 2-4 p.m. | inter01 inter02 inter03 |
| SAS* (four parts) +++ "C" Programming Language* (five parts)+++ | Feb. 14 to 18 Feb. 21 to 24 Feb. 14 to 18 | 10 a.m.-noon 6-8 p.m. 8-10 a.m. | sas001 sas002 cprog1 |
| Intro to Computer Terminology NEW What's new with WP6.0 | Feb. 21 Feb. 22 Feb. 23 | 2-4 p.m. 2-4 p.m. 2-4 p.m. | terms1 newwp6 newwp6 |
| Intro to Pegasus Mail* | Feb. 24 Feb. 25 | 10 a.m.-noon 10 a.m.-noon | pmail1 pmail2 |
| Accessing Library and Off-Site Databases NEW Intro to Excel | Feb. 24 Feb. 28 Feb. 28 March 1 | 2-4 p.m. 10 a.m.-noon 2-4 p.m. 6-8 p.m. | libdb1 libdb2 excell1 excell2 |
| NEW Intro to MS Word | March 1 March 2 | 2-4 p.m. 6-8 p.m. | word01 word02 |
| NEW Getting to Know Personal Computers | March 7 | 10 a.m.-noon | pcknow |

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Crossword answers



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Office of Research deadlines

Due Jan. 21 are grant applications to the Ontario Vegetable Growers Marketing Board.

Jan. 24 is the deadline to apply for:

- Ministry of Transportation and Communications highway safety research grants.
- Amyotrophic Lateral Sclerosis research grants.
- Canadian Scandinavian Foundation scholarships and grants.
- The Hamilton Foundation's E.B. Eastburn Fellowships.
- Environment Canada grants through the Canadian Wildlife Service.
- Fitness and Amateur Sport applied sport research grants.
- Department of National Defence grants. □

Journal profiles Sulawesi research

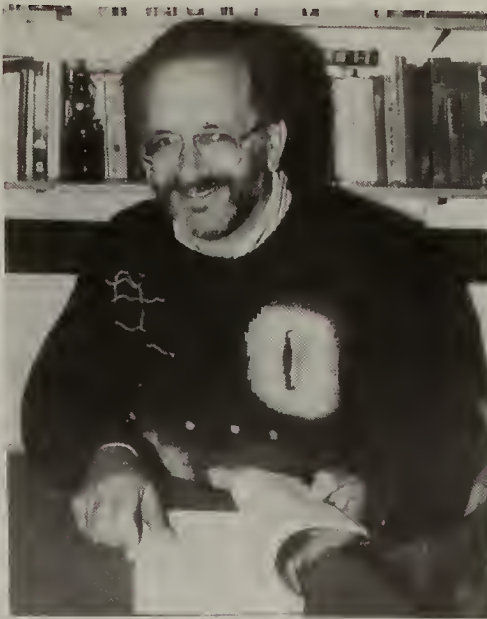
Some of the lessons learned as a result of the Sulawesi Regional Development Project and other related research on gender and sustainable development issues are profiled in a recent special issue of the *Canadian Journal of Development Studies* entitled "Indonesia: Multidimensional Development."

Designed to give researchers a chance to share their findings and research work on Sulawesi, the publication was co-edited by Prof. Harry Cummings, a member of both the Department of Agricultural Economics and Business and the University School of Rural Planning and Development and director of the Sulawesi Project from 1976 to 1979 and 1984 to 1992.

The book is the fruition of a number of goals, says Cummings. "When I got involved with the project, it was important to me to not just do it as a rural development project. We wanted to learn from it, do research and achieve spin-off benefits."

Several faculty and former graduate students contributed to the journal profile. Cummings initiated and co-edited the issue, contributed a chapter on project planning and administrative lessons and co-wrote another on gender issues.

Topics covered in the journal in-



Prof. Harry Cummings is co-editor of a special report on research in Sulawesi.
Photo by Margaret Boyd, University Communications

clude village-level participation and decision making, sustainable development design and gender issues in the context of a social forestry program and a rice irrigation project.

The current phase of the Sulawesi Project involves aid to the four provinces of Sulawesi to implement a set of development initiatives in six integrated area development sites. The strategy focuses on improving the welfare of rural people in Sulawesi.

Cummings is pleased with the multiplier effects of the original project. Spin-offs include International Development Research Centre sponsorships for students to work in Indonesia on issues of water supply and river basin management. Guelph students have also won Canadian International Development Agency scholarships to work on small holder agriculture and rural women's organizations.

The first part of the journal contains an overview of Indonesia, looking at demographic aspects of development in the country, disparity issues and regional development.

Copies of the report are available from the *Canadian Journal of Development Studies* at the University of Ottawa. Efforts are being made to bring the journal to the campus bookstore. □

UA&D implements interim structure

Ken Murray, who is heading up University Affairs and Development until a new vice-president arrives, has implemented an interim structure for the area.

Five people responsible for alumni and corporate development, fund raising, communications and conferences join Murray on a management team that will continue to build relationships with on- and off-campus constituents.

Fund raising is now focused in a single unit headed by Pam Healey, interim director of development. Marilyn Robinson, director of major gifts, will work closely with Healey and the development team in carrying out

all fund-raising activities.

Paulette Samson, director of the annual fund and support services, and Don Stephenson, manager of bequests and planned giving, are part of this development unit.

Alumni Affairs, with Trish Walker as director, remains unchanged. Gary Nadalin continues as director of Community and Conference Services. Protocol officer Joan Barr and Rosemary Clark, director of Advancement Services, are both in this area.

Mary Cocivera continues as director of University Communications. Printing and Graphic Services, managed by Craig McNaught, is part of this unit. □

Winter library hours set

During the winter semester, library hours and services will operate on the following schedule.

From now until April 30, the McLaughlin Library and the Veterinary Science Section will be open from 8:30 a.m. to midnight Monday to Friday and from 10 a.m. to midnight on weekends

and holidays.

From May 1 to May 8, McLaughlin and Veterinary Science will be open from 8:30 a.m. to 5 p.m. Monday to Friday. McLaughlin will be open on the weekend from 8:30 a.m. to 5 p.m. For reference service hours, call Ext. 3617. □

Library offers tours, classes

The U of G Library is again offering building tours and classes to introduce its services to members of the University community. They run from Jan. 12 to Feb. 2.

Drop-in tours last 30 minutes and provide an overview of what the library has to offer. Tours meet in the orientation area on the first floor of the McLaughlin Building.

The library also offers several 50-minute classes in the use of

library resources. You can learn how to use the computer catalogue, the journal abstracts and indexes or the computer-based abstracts and indexes. Sign up for the classes in the orientation area.

For a list of tours and classes, see the *At Guelph* calendar or drop by the library. For more information, call Susan Waterman MacLean at Ext. 2322. □

Sulawesi recommendation goes to Senate Jan. 18

The Senate Committee on International Activities (SCIA) is to bring back to Senate Jan. 18 a recommendation concerning release of the external review of the Sulawesi Regional Development Project to the wider University community.

The action follows the Dec. 21 Senate meeting, where SCIA, in closed session, outlined to senators how it intends to proceed on recommendations coming out of the external

review.

Senators who have obtained a copy of the report are encouraged to respond in writing to SCIA, making comments on any of the 16 recommendations brought forward by the reviewers, says SCIA chair Prof. Bruce Sells, dean of the College of Biological Science.

Copies of the report are available to senators from the Senate Secretariat on Level 4 of the University Centre. □

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- Arboretum
- Greenhouse Cafe
- OVC Cafe
- Creelman
- Faculty Club
- Mountain Hall
- Prairie Hall
- Gryphs Lounge
- Library
- MacKinnon Building
- Massey Coffee Shop
- Grad Student Lounge
- OVC Library

Off campus at:

- Guelph Tourism Connection (Eaton Centre)
- Holiday Inn
- Guelph Library (All Branches)
- Willow West Mall
- Canada Trust Downtown
- Toronto Dominion Bank (Downtown)
- Woodlawn Motel
- Zehrs (Kortright)
- The Bookshelf
- Pharmacy (College & Gordon)
- Bank of Montreal (St. Georges Square)
- Stone Road Mall (Customer Service)
- College Inn



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NOTICES

Redress your stress

The Stress Management and High-Performance Clinic will offer "Burnout," a new six-session program for people trying to cope with the demands of more work with fewer resources. Sessions run Mondays and Thursdays at 12:10 p.m. beginning Jan. 20. Cost is \$70. The clinic will also offer relaxation skills and booster classes.

ses. Relaxation classes are \$120, \$40 for students, and begin Jan. 20. The first booster class begins Jan. 18 and costs \$40. For more information, call Evelyn Bird at Ext. 2662. Registration forms are available at the Connection Desk on Level 3 of the UC.

Learn to sign

The Centre for Students with Disabilities will offer a 10-week course in American Sign Language starting the week of Jan. 24. It will run Tuesdays or Thursdays, depending on demand, from 5 to 6:30 p.m. and costs \$25. Call Ext. 6208 for information or to register.

Seniors sought

People over 60 are sometimes mistreated by family members, friends and caregivers. A master's student working with Prof. Linda Wood in the Department of

Psychology is interested in hearing about older people's experiences of mistreatment. If you or someone you know has suffered physical or emotional mistreatment or a breach of trust, call Joan at Ext. 3591 by Jan. 22.

Musical interlude

The Guelph Chamber Music Society presents Robert Aitken on flute and Erica Goodman on harp Jan. 23 at 3 p.m. at Chalmers United Church. Tickets are \$15 general, \$12 for students and seniors, and are available at the door.

Baha'i offering

To mark World Religion Day Jan. 16, the Baha'i community of Guelph will present to the people of Guelph the Kitab-i-Aqdas, the sacred text of the Baha'i faith. The presentation will take place at 7:30 p.m. at the Loft, 1 Carden St. Guest speaker will be David Smith, counsellor for the Americas, who will explain the significance of the sacred text. The public is invited to attend.

Allergy beware

Many people suffer potentially fatal allergic reactions caused by food mislabelling or cross-contamination during food production. "Allergy Beware" is a program designed to increase awareness of this problem among food processors. A panel of experts and a video will highlight a session Jan. 27 at 7 p.m. in the OVC Lifetime Learning Centre. Cost at the door is \$5 general, \$2 for students.

Animal welfare

The *Journal of Agricultural and Environmental Ethics* has published two special issues of the "Proceedings of an International Conference on Farm Animal Welfare" held in Maryland. Cost is \$25 (plus GST) for the two volumes. For more information or to order, call Ext. 3330 or drop by Room 039 of the MacKinnon Building.

Dog donors needed

The Small-Animal Clinic at the Veterinary Teaching Hospital needs more volunteers for its canine blood-donor program. Dog donors must be males or spayed females, at least 25 kilograms, in good physical condition, between the ages of two and eight and with a good temperament. In return for four donations a year, OVC will provide free yearly vaccinations and other services. For more information, call Ramona Ledvinka or Helen Scott at Ext. 4149.

Northern awards

The Canadian Northern Studies Trust provides six awards for students with an interest in the Canadian North. The deadline for applications is Jan. 31. For more information, contact the Association for Northern Studies at 130 Albert St., Suite 201, Ottawa K1P 5G4, 613-238-3525.

Vets to meet

The Ontario Veterinary Medical Association will hold its annual conference Jan. 27 to 29 at the Hamilton Convention Centre. For details, call conference planner Karin Stevens at 905-875-0922.

CLASSIFIEDS

FOR SALE

Stair-climbing machine; Scandinavian posture sale, 836-2279.

Three-bedroom stone house, excellent condition, 822-0764.

1983 Volvo DL 240 series, will certify, 843-1633.

1985 Buick LeSabre, Limited Edition V8, white, vinyl roof, power accessories, easily certified, Ext. 4098 or 767-0448.

Techno-Master drafting table with Auto-Flow II arm attachment, Ext. 4903 or 836-5446.

FOR SALE

Man's 14-inch 12-speed bicycle, Shimano gears, specialized helmet, accessories, excellent condition, 767-2249 evenings and weekends, 846-9010 weekdays.

Danby bar fridge, 4.3 cubic feet, new, Ext. 6220 or 836-2492

Student rental house, excellent return on investment, 822-0764.

FOR RENT

Bachelor apartment in new home, 10 minutes west of Hurlton, available Jan. 1, \$385 a month inclusive, 651-2169.

FOR RENT

Furnished house in Arthur, available from February to July 1994, occupants on educational leave, 848-2342.

Furnished three-bedroom home, walking distance to downtown, close to schools and parks, laundry, gas heat, fenced yard, deck, garage, attic family room, ideal for prof or other professional, available August 1994 to August 1995, no pets, \$1,100 a month plus utilities, 836-1428.

WANTED

Someone to part board a horse with me, beautiful trails, 10 minutes from the University, reasonable, Yvette, 766-1472.


Wooden table, 60 inches wide, 30 inches deep, 29 inches high, Tricia, Ext. 2296.

Crib, 1-416-527-5424.

Wooden high chair, 658-9938 after 6 p.m.

AVAILABLE

Old, used laboratory equipment, free to anyone willing to pick up; painted wooden bookcase; low wooden bench; tall table on wheels; four swivel stools; Elizabeth, Ext. 8918.


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CALENDAR

THURSDAY, JAN. 13

Library Orientation - Drop-in tours run at 10:10 a.m. and 3:10 p.m. from the orientation area on the main floor.

FRIDAY, JAN. 14

Library Orientation - Drop-in tours begin at 11:10 a.m. and 3:10 p.m. at the orientation area. Computer catalogue instruction is available at 10:10 a.m. and 2:10 p.m.; sign-up is required.

Poster Display - Nutritional science graduate students explain their research through posters displayed in the third-floor hall of the Animal Science and Nutrition Building.

Macdonald Stewart Art Centre - The opening reception for two new exhibitions featuring the work of sculpture Kim Adams and celebrating the 15th anniversary of Ed Video in Guelph run from 8 to 10 p.m. Karen Knights will give a gallery talk on the Ed Video celebration at 7 p.m.

SUNDAY, JAN. 16

Arboretum - Learn how to identify the "Wonderful Winter Weeds" that endure the cold climate and find out why they're important on a walk that leaves from the nature centre at 2 p.m.

MONDAY, JAN. 17

Library Orientation - Drop-in tours run at 10:10 a.m. and 2:10 and 6:10 p.m. from the orientation area. Instruction in using journal abstracts and indexes begins at 11:10 a.m.; sign-up required.

Canadian Wildflower Society - Terry Fahey discusses "Restoration of Oak Savannah in High Park" at 7:30 p.m. in the Arboretum Centre. For more information, call 824-3807.

TUESDAY, JAN. 18

Library Orientation - Drop-in tours run at 11:10 a.m. and 3:10 p.m. from the orientation area. Computer catalogue instruction is available at 9:10 a.m. Use of jour-



Pianist Valerie Candelaria performs Jan. 20 in MacKinnon 107.

nal abstracts is explained at 2:10 p.m. Sign-up required for classes.

Engineering and Physics Seminar - Norman Ball of the University of Waterloo discusses "Risk Communication for Science and Engineering Graduates" at 4 p.m. in MacNaughton 113.

Arboretum - If you're interested in helping out at the Arboretum, you're invited to attend a volunteer information night at 7 p.m. at the Arboretum Centre. Staff will outline volunteer opportunities and answer questions.

Lecture - "The Effects of Genetic Engineering on Animal Welfare" is the topic of Michael Fox, vice-president of the U.S. Humane Society, at 7:30 p.m. in Lifetime Learning Centre 1714.

WEDNESDAY, JAN. 19

Library Orientation - Drop-in tours run at 10:10 a.m. and 2:10 and 6:10 p.m. from the orientation area. Catalogue instruction begins at 9:10 a.m. and 1:10 p.m. The journal abstracts are explained at 11:10 a.m. and 3:10 p.m. Sign-up required for classes.

Third-Age Learning - Retired English professor John Bligh discusses "Hegelianism at Oxford Till 1914" at 10 a.m. and Prof. Fred Vaughan, Political Studies, looks at "The Early Constitutions of Canada: The Articles of Capitulation to Act of Union 1840" at 1:30 p.m. in the Arboretum Centre. Cost is \$16 for each series.

THURSDAY, JAN. 20

Library Orientation - Drop-in tours run at 11:10 a.m. and 2:10 p.m. from the orientation area. Catalogue instruction is at 10:10 a.m. and 3:10 p.m. Learn how to use the journal abstracts at 1:10 p.m. Sign-up required for classes.

Concert - The Department of Music presents a noon-hour concert featuring pianist Valerie Candelaria in MacKinnon 107. The program includes works by Chopin and Liszt. Admission is free.

Seminar - "Structural Adjustment in Latin America: Impact and Responses" is the topic of Henry Veltmeyer, director of the Institute of Development Studies at St. Mary's University, from 1 to 3 p.m. in MacKinnon 237.

Nutritional Sciences Seminar - Stephanie Atkinson of McMaster University examines "Glucocorticoid-Induced Alterations in Intestinal Transport of Calcium and Trace Elements" at 4 p.m. in Animal Science and Nutrition 141.

FRIDAY, JAN. 21

Library Orientation - Journal abstract instruction begins at 10:10 a.m. Learn how to use the computer catalogue at 3:10 p.m. Sign-up required.

SUNDAY, JAN. 23

Arboretum - Explore life beneath the ice of Victoria Woods pond on a walk that leaves from the nature centre at 2 p.m.

MONDAY, JAN. 24

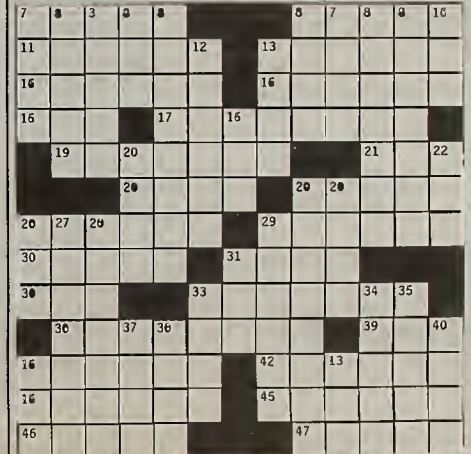
Gerontology Seminar - Nancy Guberman of the University of Quebec at Montreal discusses "Employment, Caregiving and

Family Life: More Than a Difficult Juggling Act" at 12:10 p.m. in the Family and Consumer Studies Building boardroom.

TUESDAY, JAN. 25

Physics Seminar - Derek Leinweber of Ohio State University is the guest speaker at 4 p.m. in MacNaughton 113. Topic to be announced.

Canadian Criss Cross by Walter D. Feener



ACROSS

1. Party gives
6. Icelandic narratives
11. Big Dipper star
13. March past
14. Armed guard
15. New York Indian
16. Grunter
17. Modern
19. Companion of nor
21. Compass point
23. British gun
24. Nomadic tribe
26. Shoplifted
29. Far-space radio-energy source
30. Curved like a bow
31. Football kick
32. Tangled mass
33. Tanned hide
36. Buteos
39. Stripling
41. Brown pigments
42. Popular uprising
44. Grown-ups
45. Apply blusher
46. Vesicles
47. Impoverished

DOWN

1. Door fastener
2. Fat's liquid part
3. Burn lightly
4. Add together
5. Walked like a peacock
6. Hourglass contents
7. Kind of code
8. Leg coverings
9. Book supplements
10. Ocean
12. Dash mark
13. Short of cash
18. After nine
20. Key
22. Musket ending
24. Predators
25. Word of honor
26. "Cheers" propnetor
27. Disastrous event
28. Creatures with tentacles
29. Friend
31. Church bench
33. Young woman
34. Avoid adroity
35. Valued
37. Sediment
38. Head coverings
40. Say note
41. Pouch
43. Netherlands commune

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Place: The Large Classroom (Room 1714)
The Learning Centre
Ontario Veterinary College

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek — A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

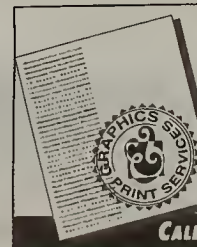
Feminist Spirituality, a study group looking at the range of spiritualities emerging from the women's movement, meets Thursdays at noon in UC 334.

The Lutheran Lunch Bunch of the Lutheran Students' Movement meets Thursdays at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533.

"Humor in the Interdependent Web" is the topic of Margaret Stewart Jan. 23 at 10:30 a.m. at the Guelph Unitarian Fellowship. □

For crossword
solution, see page 4



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FOCUS

Getting retirement down to a fine art

by Maurice Oishi
University Communications

During an academic career spent carving out an explanation of "What is art?" George Todd always felt a pang of discomfort when students asked about his own artistic endeavors.

The former chair of both the departments of Fine Art and Philosophy was embarrassed to admit that he hadn't picked up a brush, chisel or any other art-making tool since Grade 9, when an art teacher cast a disparaging eye on his work.

It was that embarrassment that helped give Todd the impetus he needed to pick up a sketchbook and pull up an easel. And it was that impetus that led him to take a financial leap of faith five years ago when the University was offering early-retirement packages. He chose to become a full-time painter.

Since he made that decision, Todd's works have been displayed at the Bookshelf Cafe and at the Durham Art Gallery in Durham. Currently, he's preparing for a show at the Faculty Club in September.

The foundations of Todd's decision trace back to 1975, when he enrolled in his first studio course in the Department of Fine Art. After completing the course, he then chair of the Department of Philosophy joined an informal group of painters based in Elora and headed by artist Corbett Gray.

Although Todd found comfort in his pencil sketches, Gray one day ribbed him to "either bring some paints or don't come back." Todd returned the next week with one canvas and, after the three-hour session, found it remained largely white for lack of paint, far behind the efforts of his peers.

But catching up with the group wasn't and still isn't his concern. Until a work leaves his cluttered

studio, a converted bedroom in his Exhibition Park home, it's likely to grow increasingly heavy with layers of paint as he works to instill a sense of "goodness" into the work.

As Prof. Murray Code, Mathematics and Statistics, a friend of Todd's and an accomplished painter himself, notes, Todd "thinks very deeply about his paintings. He takes enormous pains in his work so that one can undergo subtle but important changes."

If Todd was no prodigy as a child, his talent didn't magically ripen with age either. While serving as chair of the Department of Philosophy, he was asked to fill in as chair of the Department of Fine Art because "nobody else in the department wanted to do it."

His paintings did not go unnoticed in the department. "The people in Fine Art were concerned that I might display these things, which wouldn't have been good" for the department's reputation.

When the opportunity to take early retirement arose, in the University's first and only open-windows scheme, Todd considered his options and — with the full support of his wife, Joan — chose to retire. After two terms as chair in two departments, he realized he had nothing more to give to the University. "I was completely exhausted."

Overall, he says, it was a necessary change. But a career change? "I don't regard it as a career. No, it's a need . . . a calling. You choose a career, but an art chooses you."

Working a routine that begins at about 9 a.m. and continues until late afternoon most days — with time off for lunch — Todd has approached a level of artistry where he feels comfortable with his work and prepared to meet the critical eyes of his University colleagues, his most earnest critics.

What he did as an academic does not have a profound effect on his daily retirement regimen, he says, but it isn't entirely divorced from it. He isn't conscious of the philosophy of art when he paints. "The two may meet in the end, but I don't want to pursue the mechanics of my definition."

What the definition and the process share is a near-Platonic notion of "goodness." Todd admits the definition is arcane and prefers to explain it this way: "Anyone can look at the finished product all day without any drop in appreciation."

He can point to his paintings and tell you precisely which parts fulfill his ideal of goodness. The process is excruciating, he says.

For a work in its totality to meet his standards, "there has to be an equality of parts, and all parts of a work must be equally important. And in the end, the goodness of the work should be inextinguishable."

Todd's works are vividly colored, evocative scenes from his travels abroad. He admits that his paintings, at their simplest level, are decorative. But he doesn't think that should detract from the deeper meaning he tries to instill. As he likes to put it: "The road to glory leads through decoration."

Although Todd takes a self-criti-



For retired professor George Todd, the fine art of retirement means putting in a full day at the easel.

Photo by Maurice Oishi

cal attitude towards his work, his high standards are paying a dividend. "I think his efforts over the years have paid off," says Code. "He takes tremendous pains, but he's being repaid for them."

In his retirement, too, Todd

believes his efforts are being rewarded, and he doesn't mean monetarily. "Money is neither here nor there," he says. "I'm getting somewhere. There's some goodness happening, and it's happening everyday." □



Design for new civic centre unveiled

A two-storey glass wall will curve around the lobby and reception area in Guelph's new civic centre when it's built on the site of the Speed skating rink.

Guelph city council accepted architect Ted Teshima's schematic design for the centre in December. Moriyama & Teshima Architects of Toronto was chosen from a field of 90 firms to design the building.

Teshima told council that construction could begin this November if the city decides to proceed immediately with detailed design drawings. City council will be asked to approve moving ahead with these drawings early this year.

The civic centre will contain an 800-seat theatre and a 200-seat multi-use hall with a flat sprung floor and seats that telescope into the wall when not in use.

The reception and lobby area — the space behind the curved glass wall — will accommodate receptions, conferences, exhibits and banquets for up to 350 people. This space will be called the

Canada Company Hall in honor of John Galt's visionary commercial venture that was tied to the founding of Guelph.

Companies and individuals who have donated at least \$40,000 to the project will be acknowledged on a plaque in the Canada Company Hall.

The \$12-million centre is being funded by the City of Guelph (\$4 million), the province (\$2 million through jobsOntario), the federal government (\$2 million through Tourism Canada) and donations from individuals, companies and foundations.

A total of close to \$11 million has been raised.

A major push to move the fundraising campaign over the top is now under way. Prof. Jim Stevens, Department of Physics, is chairing the campus campaign. For more information, call him at Ext. 3852. □

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AT GUELPH

Volume 38 No. 2 Established in 1956

University of Guelph, Guelph, Ontario January 19, 1994

FIRST GLANCE

Roll out the chicken soup!

If the weather isn't getting you down, chances are a bug will. 'Tis the season for viral infections, those pesky colds and flu that hit us every year about this time.

Dr. Norm Bowles of Student Health Services says that bugs caught over the holidays incubate, then hatch in full force just in time for you to go back to work and class. "Campus is the ideal place for these things to spread," he says.

The doctor's advice is rest, fluids and appropriate medication to treat those nasty symptoms. Don't look for a miracle cure, says Bowles. "Our job is to wade through the epidemic."

Still united

Although the campus United Way campaign is finished, donations keep rolling in. The latest total is \$155,786. A sure sign that the spirit of giving is alive and well at U of G.

Inside:

Parents want help to balance family, work . . . 3

Baby formula needs nutritional boost . . . 4

What is the ideal structure for an effective Senate? . . . 5

Elderhostel opens windows on the world . . . 8

We're in the news! . . . B

Thought for the week

The worst thing about new books is that they keep us from reading the old ones.

Joseph Joubert



It's a bird, it's a plane . . . it's a septic tank!

Toronto artist Kim Adams prepares for his exhibition at the Macdonald Stewart Art Centre. This sculpture is a modern-day ship in a bottle — an elaborate model railway

contained in a septic tank. He will give a gallery talk Jan. 20 at 4:30 p.m. at the art centre. The exhibit runs until Feb. 13.

Photo by Maurice Oishi, University Communications

Air-quality team tackles MacKinnon

The campus air-quality team has moved on to the fourth building in its study and the first non-scientific building to be surveyed — MacKinnon.

Unlike buildings used for scientific research, MacKinnon doesn't house research chemicals or major sources of noxious odors, says team leader Lloyd Cummins, head of Building Environmental Systems. Instead, the main issue is comfortable working conditions, he says. The building "has more classical problems, things that suggest sick-building syndrome."

As the team progresses through the buildings on campus, he expects this shift in emphasis to become more pronounced.

The air-quality team considers three factors in establishing their priorities — building users' concerns, air-quality measurements and the restrictions of the existing structural design. This last factor is an important consideration in MacKinnon, says Cummins.

Early in the assessment of the building (a process that will likely take six months), some problems have already surfaced, he says. In one wing of the building, a custodial storeroom, a psychology laboratory and the Department of Drama's set-construction workshop are adjacent to each other, raising concerns about their shared ventilation.

Ventilation is invariably linked to heating and cooling systems — change the temperature and you usually change the rate of ventilation. The workshop, lab and storage area share a common ventilation system with offices on the floor above. Because some air is normally recirculated as part of heating or cooling, the offices could be affected by other activities.

The office tower in MacKinnon poses its own unique problems, says Cummins. It uses a different heating system that requires lower

See BUILDING on page 2

Province confirms that it's considering OHIP cuts for international students

by Maurice Oishi
University Communications

The Ontario Ministry of Health has confirmed rumors that it is considering cutting OHIP coverage to international students.

At a meeting last month arranged by the Canadian Federation of Students-Ontario (CFS-O), ministry officials told international student representatives and advisers that the

proposed elimination of coverage was a cost-cutting measure. The cuts could affect as many as 250 undergraduates and 300 graduate students at U of G.

Rumors of the potential policy change have circulated since last April, says Kadi Mbanefo, a biological science undergraduate student from Nigeria who attended the meeting. "They didn't really tell us anything that we hadn't already heard," says Mbanefo, who is the

Central Student Association's internal commissioner.

The December meeting was the first time that international students were made privy to the rumored amendments in policy, Mbanefo says. But the government said it had completed a round of consultation with the Ministry of Education and Training, other ministries

See U of G on page 3

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OUR PEOPLE

Cuban conference focuses on business



John Pratschke

Prof. John Pratschke, Consumer Studies, spent a week in Havana recently presenting lectures, seminars and workshops on business management and marketing with a group of business academics from Ontario universities and colleges. Pratschke gave the plenary address at the conference, discussing "Industrial Policy and Marketing — Some Lessons from Ireland." He then spent a week as a visiting professor at the Universidad de Oriente in Santiago de Cuba, presenting a number of seminars on business economics. He was also a visiting professor at the Management Centre for the Ministry of Basic Industry in Havana, where he gave a graduate course on managerial economics.

Book earns kudos from Maclean's

George Grant: *A Biography*, written by Prof. William Christian, Political Studies, made the top 10 list in the Jan. 10 issue of *Maclean's*. Christian's book was ranked the fifth-best non-fiction book of 1993 by the magazine's section editors and critics.

Sociologist teaches in Brazil

Prof. Nora Cebotarev, Sociology and Anthropology, recently returned from a two-month visit to Brazil, where she taught graduate courses in the new master's program in family economics at the Federal University of Vicosa. The program was created with support from the Guelph-Canadian International Development Agency's regional women's training project.

Gerontologist to edit journal

Prof. Anne Martin Matthews, Family Studies, has been appointed social sciences editor for the *Canadian Journal on Aging* for a four-year term. She has also been named to the advisory committee of the Seniors Independence Research Program of Health Canada. Martin Matthews is director of the Gerontology Research Centre.

Nutrition prof named to council

Prof. Rosalind Gibson, Family Studies, has been elected a member of the Council of the International Union of Nutritional Scientists.

Herold attends sexology symposium

Prof. Ed Herold, Family Studies, was an invited delegate at the first Sino-North American Symposium on Sexology sponsored by the Chinese Medical Association. The symposium consisted of presentations, site visits, group discussions and workshops in Beijing, Chengdu and Shanghai. Herold presented a paper on "AIDS and Sex Tourism" and participated in a panel on AIDS education.

D.Sc. recipient receives medal

University of Western Ontario engineer Alan Davenport, who received an honorary doctorate of science from U of G last year, is the 1994 winner of the Canada Gold Medal for Science and Engineering for lifetime contributions to engineering research. Davenport is director of Western's Boundary Layer Wind Tunnel. □



Coming on board

Members of the 1993/94 board of directors of the Faculty Club gather for a photo. Front row, from left: Dudley Gibbs, Ceska Brennan, Prof. John Ogilvie and Prof. Phil Sweeny. Second row: Faculty Club manager David Overton, president Starr

Ellis, Janet Kaulman, treasurer Prof. Caesar Senoff, Prof. Jerry Riekels and Karen Carter. Missing are Profs. Ken Grant, Wayne Galehouse and Wayne Pfeiffer.

Photo by Herb Rauscher, Photographic Services

APPOINTMENTS

Julia Biederman of Kitchener has been appointed assistant professor in the School of Engineering effective July 1.

Prof. Dave Hume has been named chair of the Department of Crop Science for a five-year term that began Nov. 1.

In the Department of Drama, Prof. Ric Knowles has been reappointed chair for a second five-year term beginning July 1.

Prof. Marc Le Maguer has been reappointed chair of the

Department of Food Science for a five-year term that begins July 1.

Prof. Bob McCrindle is the new chair of the Department of Chemistry and Biochemistry. His five-year term began Jan. 1.

Prof. Mary McLeish is the new chair of the Department of Computing and Information Science. Her four-year term began Jan. 1.

In the Department of History, Prof. Eric Reiche has been reappointed chair for a three-year term effective Aug. 1. □

Building air-quality studies offshoot of campus morale survey

Continued from page 1

volumes of air to heat and cool the building. Although potentially more efficient, the lower air flow can allow carbon dioxide — a gas associated with headaches and fatigue — to build up.

The air-quality team's efforts are an offshoot of the 1990 morale survey, which identified air quality as a major concern on campus. The following buildings were earmarked for changes in their ventilation sys-

tems — Pathology, MacNaughton/ Chemistry and Microbiology, Animal Science and Nutrition, MacKinnon, McLaughlin, the University Centre, Computing and Communications Services and Veterinary Microbiology and Immunology.

The Pathology Building was the first to undergo an in-depth examination by the air-quality team. The recommendations made by the team have been completed.

Two-thirds of the work on the Chemistry and Microbiology Building was completed

last year, says Barney Jones, head of Construction and Maintenance. That included removal of asbestos, reconfiguration of general ventilation ducts and replacement of some fume-hood exhaust ducts.

Recommendations made in the review of the Animal Science and Nutrition Building are proceeding, says mechanical design coordinator Martin Hodgson. The building design itself — where a central block of labs is surrounded by offices — is at issue here. Hodgson and Cummins agree that

ideally, office space and labs should be housed separately. "What's tolerable in a lab is often a source of complaints in an office area," Cummins says.

Changes to this building will include renovations to improve ventilation and the efficiency of the fume-hood exhausts.

Although work on the chemistry area has been completed, the final removal of asbestos and changes to the ventilation system of the upper two floors of the microbiology area will be completed next year. □

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Please Recycle

Parents need help to balance family, work, says Statistics Canada

by Margaret Boyd
University Communications

Canadian parents generally lack access to many workplace benefits and arrangements that might help them balance work, family responsibilities and child care, says a new report from Statistics Canada.

The Canadian national child-care study's fifth publication — *Workplace Benefits and Flexibility: A Perspective on Parents' Experience* — found that extended (unpaid) maternity leave and part-time work were the most commonly available benefits and arrangements. Each was available to 53 per cent of parents with primary responsibility for child care.

Only 32 per cent of the parents surveyed said there was some flexibility in their work hours. The study found that most would like to see changes in workplace policy to help them balance work and family needs.

More flexibility

What parents need is more flexibility in scheduling their work hours, says Prof. Donna Lero, Family Studies, director of the national study.

"The study results suggest that various proposals such as a four-day work week might be welcomed by those parents who can afford the reduction in pay," she says. "For many, however, shorter workdays or some choice over the scheduling of work hours is what is most desired."

The study addresses three major issues that affect working parents of young children: availability of benefits, preferences for changes in the workplace and stress.

Highlights of the report include:

- Almost 90 per cent of parents who work for pay outside the home while assuming primary responsibility for arranging child care said they experienced some daily tension from juggling work and family responsibilities. Almost one-fifth experience severe tension on a daily basis.

- Nearly 70 per cent said a change in workplace policy or

practices would help them better balance work and family responsibilities. The two most popular arrangements preferred by parents were workplace child-care facilities (23 per cent) and flexible working hours (19 per cent).

- Nearly two-thirds of parents with three or more children had no flexibility in their work hours.
- Some 75 per cent of parents with primary responsibility for child care were employed full time, but only 34 per cent said full-time employment was the most desirable option for them.
- More than three-quarters of parents with preschool-aged children had no access to paid short-term leave when their children were sick or when child-care arrangements fell through.
- Single parents were considerably less likely than other parents to be able to reduce their work hours to part time.
- Access to family-supportive workplace benefits and arrangements was related to parents' employment characteristics. Parents employed part time were more likely to be able to work flexible hours than those employed full time, but less likely to have access to paid leave. Highly specialized employees were more likely to report access to part-time work or job-sharing options. Senior and middle managers were most likely to have access to flexible work schedules and paid family-responsibility leave.

National survey

The data were collected through the 1988 national child-care survey from a representative sample of families with one or more children under 13. Estimates in this report pertain to about 1.4 million parents who worked for pay outside the home in the fall of 1988 while assuming primary responsibility for child care. Of such parents, 94 per cent were women, 81 per cent were part of a dual-earning couple, 14 per cent were lone parents and five per cent were sole earners with a spouse who was unemployed or not in the labor force.

Impetus for the national child-care study came from the National Day-Care Research Network, a group of Canadian university professors involved in research on child care. It is a collaborative project with Statistics Canada.

Co-director of the study is Alan Pence of the University of Victoria. Principal investigators are Hillel Goelman of the University of British Columbia and Lois Brockman of the University of Manitoba.

The study is funded primarily by the Child-Care Initiatives Fund, Human Resources Development, with additional support from the Social Sciences and Humanities Research Council of Canada and the provinces of Ontario and New Brunswick. Major findings are being presented in a series of reports published by StatsCan. □



The sounds of learning

The board of directors of Third Age Learning-Guelph (TAL) test out the new infra-red hearing-enhancement and sound systems that their organization donated to the Arboretum Centre auditorium. TAL is a lifelong learning program

that runs a regular seminar series at the Arboretum. From left to right are Catherine Tolton, TAL chair Betty Hale, Harry Downie and Dorothy Collins.

Photo by Maurice Olsh, University Communications

U of G against proposed OHIP change

Continued from page 1

and representatives from the health insurance industry. The ministry also added that it will expand consultation, likely using the CFS-O as a liaison with international students, Mbanefo says.

According to ministry representative David Jensen, no official statement about the proposed policy change has been made, and "there's no clear sense of when this decision might take place." He added that OHIP coverage of foreign workers and those applying for landed-immigrant status, as well as their accompanying families, might also be rescinded. These decisions will be made in the shadow of a recent policy that will shift medical coverage of refugee claimants into federal hands.

In a Dec. 15 letter to Minister of Health Ruth Grier, Mbanefo, President Mordechai Rozanski and Graduate Students' Association president Rick Smith outlined U of G's opposition to the changes.

They told Grier that withdrawing coverage is "tantamount to a breach of an unwritten contract" between the government and international students, who come to Ontario with the understanding that support services will be available to them.

The letter also noted that international students and their families contribute to the Ontario economy and to the cultural life of the province. "To deny them access to our public health-care system, which they themselves help fund, would simply be unjust." It would also be "foolish in the extreme" to make them unwelcome at Ontario universities.

While living in Ontario, international students are required to pay taxes and contribute to UIC and the Canada Pension Plan. At the

same time, differential fees mean they pay roughly four times the tuition of Canadian students.

Smith notes that more than 20 per cent of U of G's graduate students are international students, the highest per capita population among Ontario universities. The cut in OHIP coverage is "targeted at people who are generally pretty vulnerable," he says. "It's like saying: 'We'll take your money, but we won't help you with your medical needs.'"

Jeffrey Holmes, vice-president for research and services for the Ottawa-based Canadian Bureau for International Education, has actively lobbied against the move. He speaks cautiously of the forthcoming government decision. "On the one hand, we're for the status quo, so we don't want to push them into a decision. But on the other hand, we'd like to know as soon as possible so that we can tell those affected and help them make alternative arrangements if need be."

U of G will have to await the ministry's decision before it can

begin to investigate alternative coverage, says Vic Reimer, manager of compensation and benefits in Human Resources. He notes that roughly half of Guelph's international students have visas, allowing them to work on campus. Whether this status will affect their coverage is uncertain.

The Student-Health Advisory Committee — which will help investigate alternative coverage should the need arise — has also not taken any action in pursuing alternatives, says committee chair Prof. Bob Winkel, Physics.

Until the government makes a decision, international students will continue to "wait with bated breath," says Mbanefo. Rising tuition fees have already raised his anxiety level and his skepticism. The government's invitation to participate in the consultation seems an afterthought, he says.

"Now that the story is out of the bag, they're trying to contact us," he says. "It sounds like they're simply trying to placate us." □

Turf course turns 25

The 25th anniversary of the turf managers' course is being commemorated with two offerings of the course at U of G — one currently under way to Feb. 11 and one running Feb. 14 to March 11.

Taught by U of G faculty and staff and Canadian experts on turf management, the course aims to teach turf industry personnel about all aspects of turf culture and management. Since the first class in 1969, more than 800 students from all segments of the turf industry have graduated from this intensive four-week program. □

Organic agriculture focus of conference

"Organic Agriculture: Building the Community" is the theme of the 13th annual Organic Agriculture Conference to be held Jan. 28 and 29 on campus.

Keynote speaker is Joe Smilie, an international organic market consultant from Quebec, who will offer a world perspective on organics as a builder of communities.

The conference will feature an open forum and panel discussion Jan. 28 at 7 p.m. in Room

103 of the University Centre. On Jan. 29, there will be 23 workshops, a trade show and an organic conference.

The conference is sponsored by U of G, the Canadian Organic Growers, Society for Biodynamic Farming and Gardening, Ecological Farmers Association of Ontario, Guelph Agricultural Alternatives, Organic Crop Improvement Association and the Ontario Ministry of Agriculture and Food.

Baby formula needs boost in nutrition, study finds

by Kerith Waddington
Office of Research

Formula-fed infants in North America lack adequate amounts of an essential nutrient needed for optimal eye performance and brain development, says Prof. Bruce Holub, Nutritional Sciences.

Holub says that docosahexaenoic acid (DHA) — an Omega-3 fatty acid essential for visual acuity and cognitive function — exists naturally in breast milk and in commercially prepared infant formulas in some other countries, but is absent in North American infant formula.

"It's very disturbing that formula-fed infants in Japanese baby formula are denied DHA at levels comparable with mother's milk while others elsewhere are receiving adequate amounts," he says.

Holub, who has studied DHA's presence in Japanese baby formula with research associate Diana Philbrick, says lower DHA levels in North American formula-fed infants can mean a suboptimal performance

compared with infants who are breast-fed or who consume formula containing DHA.

North American breast milk typically contains 0.1 to 0.5 per cent DHA. The Japanese infant formulas studied by Holub and Philbrick revealed comparable DHA levels of 0.3 to 0.4 per cent.

Infants who consume Canadian and American baby formula containing soybean oil receive some DHA indirectly because the body metabolically converts the alpha-linolenic acid present into DHA, says Holub, but the conversion rate is extremely low.

So even though the formula typically contains one to two per cent alpha-linolenic acid, it's inadequate for DHA formation for optimal visual performance, he says.

"Manufacturers of infant formula in North America should add DHA at levels comparable with breast milk," says Holub. A British task force recently endorsed DHA as an essential nutrient for infants.

There are no studies that show long-term problems resulting from early DHA



deprivation. It's known that formula-fed infants can compensate for the lack of DHA in later life through food such as fish, which is rich in the fatty acid. But they shouldn't have to play catch up, Holub says.

"Quality of life should be made as good

as it can be on a day-to-day basis, regardless of the length of that life. Here's an opportunity to give children a better start."

This research is supported by the Natural Sciences and Engineering Research Council of Canada. □



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The green, green grass of Superdome

by Maurice Oishi
University Communications

Trey Rogers's thumb is greener than most. Inside the dim confines of Michigan's Silverdome, he's grown a field's worth of real grass that will withstand the rigors of World Cup soccer.

The Michigan State University professor, who was keynote speaker this month at the Ontario Turfgrass Symposium on campus, was asked by the International Federation of Association Football (FIFA) to grow the field for this year's World Cup.

After a test match between Germany and England's national teams last summer, the field's first-ever use, it drew rave reviews from both the players and the FIFA. No small feat considering "the players were more interested in hitting the roof with the ball than about the field," says Rogers.

The Silverdome is one of nine

U.S. locales to host the World Cup games this summer and it's the only domed site. Putting grass in the dome was an idea launched by the FIFA. "If this worked here," says Rogers, "it would be applicable around the world. And it was in FIFA's self-interest to expand the horizons of the game."

The dusky light in the stadium — only about 10 per cent of sunlight passes through the translucent dome — was the most obvious obstacle.

Rather than install massive banks of expensive lights, Rogers and his colleagues devised a now patented formulation of plant-growth regulators, which slowed the rate of growth. As low as the lighting was, it met the energy needs of the slowed-down plants, he says.

Another problem was that soccer, like most stadium sports, voraciously chews up the turf. In addition, to meet the needs of Silverdome users, the playing sur-

face had to be removable.

Rogers's team used 7.5-foot-wide hexagons of turf, each six inches thick and confined by a rigid form. The depth of the turf ensures both a soft and resilient surface; the shape offers short sides with a relatively large surface area.

These features ensure that the 3,000-pound sections can be moved into and out of the stadium with little fear of damaging the edges and relatively few seams between adjacent sections that players can trip on.

Beginning in March, the forms were filled with soil in the Silverdome parking lot, then topped with California-grown sod. In June, the sections were moved into the stadium and laid out like interlocking bricks.

Rogers was delighted with the results. "You couldn't even see the seams after 36 hours." Twenty-three days, four soccer matches and a Jehovah's Witness conference later, there was little wear and even less yellowing of the grass. His success made newsstands across the United States. "It's not very often turfgrass is front-page news," he says.

Rogers expects the technology will continue to grow. "Ten years from now, this'll be a dinosaur. We'll have different grasses and better parameters. This was just a starting point."

But the technology is far from outdated yet. For the moment, the grass sits snow covered in the parking lot, waiting for its day in the dome. □

Office of Research deadlines

Jan. 24 is the deadline for:

- Alcoholic Beverage Medical Research Foundation grants-in-aid.
- Canadian Paraplegic Association/Alberta Paraplegic Association research grants, fellowships and student awards through the Rick Hanson Man in Motion Legacy Fund.
- National Cancer Institute career appointments, training and study awards, personnel support, Terry Fox Research Fellowships and cancer research scientists.
- Sigma Xi small research grants for students.
- U.S. Department of Health and Human Services grants.
- Natural Sciences and Engineering Research Council's Women's Targeted Undergraduate Research Award. □



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Senate restructuring critical to effective governance

This is the second in a series of articles related to academic restructuring. This series is intended to encourage discussion on issues and themes now under consideration in the restructuring process.

by Ann Middleton
University Communications

What is the ideal structure for an effective senate? The Senate Bylaws Committee is seeking an answer to this question. The Academic Restructuring Committee (ARC) has requested the committee, chaired by Prof. Harold Chapman, Biomedical Sciences, to:

- come up with a plan to cut the size of Senate by half or more;
- look at different models for balancing proportional representation with effectiveness; and
- recommend a much-reduced structure of committees and examine the mandates and overlaps.

Chapman says an interim report will be ready for consideration by the Strategic-Planning Commission (which has replaced ARC) by February.

A reduction in the size of Senate may require an amendment to the University of Guelph Act passed by the Ontario Legislature May 8, 1964. Under the act, Senate must include the heads of colleges, schools and academic departments as well as others determined by U of G bylaw.

It was pure coincidence that the University began considering restructuring Senate about the same time as the Canadian Association of University Teachers (CAUT) published a report on governance and accountability (see below). But the Guelph initiative came at a time when universities across Canada were expressing concern about the effectiveness of their academic governing bodies.

Budget critical

Most Canadian universities operate on a bi-cameral model of governance — a senate responsible for academic matters and a board of governors responsible for financial concerns. But the CAUT report says that a division of powers that isolates a senate from an effective deliberation on the budget is now generally recognized as unworkable. This is a conclusion shared by many at U of G.

The Senate Bylaws Committee is examining the whole issue of tying Senate discussion to budget considerations, Chapman says. Currently, the Senate Committee on University Planning is actively involved in budget preparation and Senate discusses the annual budget. Senate has already instituted a policy of requiring a report on how library needs will be met for new program proposals.

"But the discussion needs to take place in concert with curriculum and program changes," says Senate secretary Brenda Whiteside. "There is a need for discussion of budget at each stage of the process."

Another major concern is the unwieldy size of Guelph's Senate with its 181 members (see box at

right). "But to come up with an appropriate size, we must first examine the functions of Senate," says Chapman. The committee will look at the complete picture of academic policy creation and prioritization. Issues such as the mandate and authority of Senate and its committees and representation will be part of the discussion.

Prof. Iain Campbell, acting academic vice-president, questions the need for department chairs to automatically sit on Senate unless they are elected members.

"I believe the chairs at this university are already overworked," he says. "If dean's councils are functioning effectively, the deans should be able to represent the academic interests of their colleges at Senate. This would release the chairs for their many other responsibilities."

Student workload

Chris Parent, a fourth-year biological science student who chairs the Senate student caucus and sits on the Strategic-Planning Commission, expresses concern that student workload would double if student representation is halved.

"Representing other students effectively takes time," Parent says. "Student senators are already very busy. We can only do so much." Like many student senators, he spends several hours a week on Senate matters, much of it in affairs of caucus. The student caucus tries to represent the stu-

dent body in general, he says. The 33 members get together between Senate meetings to discuss issues common to all students.

"Each student senator brings a unique perspective to caucus," says Parent. "At Senate meetings we try to speak as a group, except in special cases like the race relations document when it would be presumptuous of us to speak on behalf of all students."

Structure a concern

Committee structure is a major concern of the Senate Bylaws Committee. Currently, course and program changes pass through multiple layers of approval.

"It's frustrating that policy goes from the Senate committees and subcommittees down to the program committees, then back up again," says Whiteside. "We need to examine how decisions are being made."

Adds Campbell: "Neither the Academic Restructuring Committee nor I want to downplay the importance of committees and what needs to be done, but there is a serious concern about the workload of our faculty and students. Many committees are very large with overlapping responsibilities. We should get committees down to the absolute minimum to let the University run, so that we can get faculty energies into education and research."

Whiteside notes that the committee structures have undergone changes over the years. Last year, for example, the Executive Committee was restructured to include the chairs of the Senate committees, the president, academic vice-president, two elected faculty and two student senators. Before that, the committee was made up of deans, vice-presidents and the president.

The current Senate structure allows for representatives of all col-

leges to sit on all committees. Campbell poses the question: "Do we really need full college representation on all committees?"

Parent does not see proportional representation as a big issue. "In most discussions, it doesn't matter that I'm a biological science student. In discussions relating to program, however, adequate representation is clearly important. As a science student, I don't have the perspective to comment on implications of changes to the history program, for example. I think students should play a greater role on program committees. Right now they are underrepresented and have no accountability because they are not elected."

Senate Bylaws Committee chair Chapman says he hopes students will feel more involved in a

smaller, more effective Senate. "We are considering election of students and faculty at large, but we feel that representation either by college or program is important."

One way of reducing senators' workload would be to seek some committee members from faculty and the student body. This is an area the Bylaws Committee will be examining, although Chapman notes that election confers a legitimacy that an appointed or volunteer member doesn't have.

He acknowledges, however, that there is some self-selection going on already. "Some colleges don't have enough candidates to fill their seats. When that happens, there is, in effect, no election." □

The numbers game

In its 1993 report on governance and accountability, the Canadian Association of University Teachers (CAUT) recommends that university senates not exceed 50 members, even at large institutions.

But CAUT says reduction can only take place if the university community accepts that senates will be representative bodies, not direct democracies involving a seat for every interest.

At 181 members, U of G currently has one of the largest university senates in Ontario, although York tops the list with 214. Queen's operates with 68, Ottawa with 66, McMaster with 88 and Wilfrid Laurier with 63. Ryerson reduced its senate from 120 to 60 in the 1970s.

Ryerson's secretary of academic council, Alan Wargo,

reports that the meetings are now shorter. "More — and more effective — work is now done at departmental council level," he says.

U of G's Senate currently includes 68 elected faculty, an elected librarian, 25 elected undergraduates and eight graduate students, nine alumni, three members of the Board of Governors and a member of the U of G Faculty Association.

The 67 ex-officio members consist of the president, academic and research vice-presidents, associate vice-presidents, deans and associate deans, directors, chairs, the registrar, the chief librarian and representatives of the Central Student and Graduate Students' associations. Senate is chaired by the president. □

CAUT writes recipe for university senate structure

In January 1993, the Canadian Association of University Teachers (CAUT) published its report on university governance and accountability. *Governance and Accountability* made a number of recommendations on the structuring of university senates.

Prof. Harold Chapman, Biomedical Sciences, says that although Guelph doesn't intend to use the report as a model, "it has certainly stimulated thinking." He notes that U of G was already looking at Senate changes even before the CAUT report was made public.

At Guelph reprints the following highlights of the CAUT recommendations to stimulate interest and discussion on the issues of Senate restructuring on campus.

- Senate should remain the chief academic decision-making body of the university.
- Senate should have a significant role in the choice of senior administrators.
- Senate should create a small number of standing committees, including a finance committee, all chaired by an elected faculty member.
- Debates of senate and standing committees should be open. Votes to close debate should be rare and precise in terms of subject matter.
- The finance committee should include the academic and administrative vice-presidents as ex-officio members.
- The budget should go to the senate finance committee to make recommendations to be debated and voted on by senate.
- The number of administrators with voting

rights should be limited. In a medium to large university, they should include the president, academic vice-president, administrative vice-president, research vice-president, student relations vice-president, senior equity officer and chief librarian. Deans and directors of schools that do not report to a college should have a voice but not a vote when matters pertain directly to their colleges, unless they are elected members of senate.

- No senate should be larger than 50 voting members, and this number is only suitable for a large institution.
- A small executive committee composed of elected faculty and senior administrators might take the following membership model: president, academic and administrative vice-presidents, senior equity officer and six elected senators who are not administrators (one to act as chair). The role of the executive is to lay before senate all significant recommendations from the administration for change in the academic policy of the university and to report on academic operations.
- Senate should be chaired by a speaker elected by senate for a fixed term of three to five years. The speaker should have no other administrative post within the university.
- A small agenda committee, chaired by the speaker and composed of the secretary of senate and one or two elected senators, should be charged with establishing the meeting agendas and considering matters of

protocol.

- The speaker and the agenda committee need to ensure that the work of senate is adequately publicized.
- There should be a small number of standing committees in addition to the finance committee, all chaired by elected senators. Committees should be small and should drastically curtail the use of subcommittees.
- Senate should take an active role in promoting equality and tolerance on campus and should have a standing committee on human rights and equity.
- The university should recognize that because the number of women and minorities is not representative of the population, members of these groups may be called to do a disproportionate amount of university service. When this occurs, release time should be considered and recognition given in career-evaluation procedures.
- Equity, legal services, harassment officers and similar professional employees should report, within the confines of client confidentiality, to senate as well as the president. Senate should approve the terms of reference and general policies of these offices.
- Senate should not deal with grievances of academic staff, students or administration.

Information about the CAUT report is available through the office of the Senate Secretariat on Level 4 of the University Centre. □

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NOTICES

Honorary degrees

Feb. 28 is the deadline for nominations for honorary degrees. The Executive Committee encourages suggestions from members of Senate, faculty, students, staff and alumni. For more information, call secretary of Senate Brenda Whiteside at Ext. 6758.

CPR-athon planned

The First-Aid Response Team, a volunteer organization of U of G students and staff that enhances emergency medical services on campus, is hosting a CPR-athon Feb. 1 to raise funds. The team hopes to do six hours of non-stop CPR on a mannequin in the University Centre. Money raised from pledges and donations will be used to buy first-aid supplies and equipment. The team also welcomes donations of equipment. For more information, call First-Aid Response director Scott Ruddle at Ext. 8488.

Guelph Arts Council

There's still a chance to buy tickets for the Guelph Arts Council's 1994 Fete Romantique draw. Grand prize is a six-course gourmet dinner for six in a heritage home in Guelph. More than 30 prizes, including restaurant vouchers, gift certificates and theatre tickets, will also be won. The draw is Jan. 23 at 1:30 p.m. in the GAC office. Tickets are \$10 and are available from Ann Middleton at Ext. 8705.

Development conference

International Education Services (IES) is hosting a Working in Development Conference on "Exchanging Perspectives" Feb. 5 at Harcourt Memorial United Church. Cost is \$15. Register at

GRAD NEWS

The final examination of **Shu Quan Song**, a PhD candidate in the Department of Chemistry and Biochemistry, is Jan. 21 at 2:30 p.m. in Room 021 of the Hutt Building. The thesis is "The Separation of σ , π and Steric Effects in Mo-P Bonding by Multinuclear NMR Spectroscopy." The adviser is Prof. Elmer Aljaya.

Interested members of the University community are invited to attend. □

the Connection Desk on Level 3 of the University Centre by Jan. 24. IES will hold skills-training workshops Jan. 25 and 31 and Feb. 8 and 16. Cost is \$3. Register at the Connection Desk. For more information, call Ext. 6918.

A tribute to Burns

The Guelph Civic Museum will hold its second annual Robbie Burns ceilidh Jan. 23 from 1:30 to 4 p.m. The afternoon will feature Scottish music, song and dance as well as Burns poetry. Admission is free.

Field study grants

Feb. 1 is the deadline to apply for international field study grants, which are available to senior undergraduate students and graduate students at U of G. Students can apply for up to \$1,250 to do field study outside of Canada for six weeks to a year. Application forms are available from International Education Services on Level 4 of the University Centre.

Earthwalk tour

Filmmaker/producer/director Douchan Gersi will tour Ontario on an Earthwalk lecture tour Feb. 1 to 8. U of G, the University of Western Ontario and the Annual Explorer's Travel Series are contributing to the tour. For details, visit International Education Services on Level 4 of the University Centre.

Architect to speak

Architect Nicholas Hill is guest speaker at the Feb. 1 meeting of the Guelph Historical Society. His topic is "Cruikston Park: A Celebration of Architecture and Its Landscape." The meeting begins at 8 p.m. at St. Andrew's Church.

GSF hymn sing

The Guelph Spring Festival will hold a hymn sing Jan. 30 at 3 p.m. at Dublin Street United Church. Featured guests are the Harcourt Church Choir, the Dublin Church Choir and the Salvation Army Band. Admission is \$6 for adults, free for children.

Call for nominations

The Corporate-Higher Education Forum is calling for nominations for its 1994 awards for excellence in furthering corporate-university co-operation in research. The Bell Canada-Forum Award goes to an individual or team doing co-operative research of major sig-

nificance. The Xerox Canada-Forum Award honors achievement in facilitating corporate-university research collaboration. For nomination forms, write to the forum at 1155 René-Lévesque Blvd. W., Suite 2501, Montreal H3B 2K4 or fax to 514-876-1498. Nomination deadline is March 1.

McCrae lecture

Wilfrid Laurier University history professor Terry Copp will give the Col. John McCrae Memorial Lecture Jan. 30 at 1 p.m. at the Royal Canadian Legion. His topic is "The Sharp End: The Canadian Soldier in Normandy." Tickets are \$10 from the Guelph Museums or at the door.

Aquaculture talks

The second International Symposium on Nutritional Strategies and Management of Aquaculture Waste will be held April 24 to 27 in Denmark. The first symposium was held at U of G in 1990. Topics up for discussion at this year's event will include advances in environmental engineering, precision in feed systems and economics in salmonid farming. For more information, call organizer Prof. Young Cho, Nutritional Sciences, at Ext. 3744.

Leader sought for natural resources/environment

The Office of Research is seeking nominations and applications for the position of leader of the natural resources/environment program of the Ontario Ministry of Agriculture and Food's research and services agreement with U of G.

The leader will be responsible for planning, implementing, operating and managing the natural resources/environment program, including its budget. The five-year renewable position will be approximately quarter-time.

Candidates must be senior faculty members with strong research, interpersonal and communication skills and an ability to inspire researchers, develop team research and be a mentor.

Applications and nominations, including curriculum vitae and names of three references, must be submitted by Jan. 26 to Prof. Larry Milligan, vice-president for research, on Level 4 of the University Centre. For more information about the position, call Milligan at Ext. 3081. □

JOBS

As of Jan. 14, the following opportunities were available:

Internal Audit Manager, temporary leave from April 1994 for about six months. Salary range: \$40,310 minimum, \$47,364 normal hiring limit, \$50,387 maximum.

Assistant Internal Audit Manager, temporary leave for two years. Salary range: \$33,783 minimum, \$39,695 normal hiring limit, \$42,229 midpoint.

The following is available to on-campus employees only:

Secretary, Office of the Vice-President, Academic, temporary leave for about one year. Normal hiring range: \$12.60 to \$14.07 an hour.

U of G policy is to give prior consideration to on-campus applicants. To determine employment opportunities, visit Human Resources Client Services on Level 5 of the University Centre or call 836-4900. □

CLASSIFIEDS

WANTED

1955 to 1959 Johnson outboards or unwanted parts or literature, Paul, Ext. 3924.

Babysitter for five-month infant in our home, three to five days a week, 763-3978.

Participants for a 12-day tour of Greece led by Marianne Micros, Department of English, reasonably priced, Ext. 8976 or 763-2785 between 4 and 9 p.m.

Seventeen-year-old French boy would like to spend a month with an English-speaking family with boy of his own age this summer, reciprocation the following summer in France, Linda, Ext. 3272 Tuesdays and Thursdays, Ext. 2873 Mondays.

Someone to part board a horse with me, beautiful trails, 10 minutes from the University, reasonable, Yvette, 766-1472.

Crib, 1-416-527-5424.

Wooden high chair, 658-9938 after 6 p.m.

FOR SALE

Computerized Stalmaster, mint condition; Woods chest freezer, 24 cubic feet; white Inglis dryer, good condition; Class A to 3,500 pounds ball-type trailer; heavy-duty stabilizing bars; leveling jacks for trailers; pair of large detachable side mirrors; folding Coleman stove stand, Lynn, Ext. 4098 or 767-0448.

Three-bedroom stone house, excellent condition, 822-0764.

Man's 14-inch 12-speed bicycle, Shimano gears, specialized helmet, accessories, excellent condition, 767-2249 evenings and weekends, 846-9010 weekends.

Danby bar fridge, 4.3 cubic feet, new, Ext. 6220 or 836-2492.

FOR RENT

Furnished house in Arthur, available from February to July 1994, occupants on educational leave, 848-2342.

FOR RENT

Four-bedroom house and barn in Ariss, five miles north of Guelph, two baths, recreation room, fireplace, 30-foot by 42-foot barn with three box stalls and workshop, large pasture, working ring, \$1,150 a month plus utilities, 824-9716 evenings.

Room available in shared townhouse, non-smoker, laundry, dishwasher, fireplace, College and Janefield area, \$325 a month plus one-third of utilities, 767-6606 evenings.

Furnished three-bedroom home, walking distance to downtown, close to schools and parks, laundry, gas heat, fenced yard, deck, garage, attic family room, ideal for prof or other professional, available August 1994 to August 1995, no pets, \$1,100 a month plus utilities, 836-1428.

THANK YOU

To the many people who offered condolences on the loss of my sister.
Julie Gigante

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SESSION 2 — Saturday, February 19, 9 a.m. to 5 p.m.

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CALENDAR

THURSDAY, JAN. 20

Library Orientation - Drop-in tours run at 11:10 a.m. and 2:10 p.m. from the orientation area on the main floor. Catalogue instruction is at 10:10 a.m. and 3:10 p.m. Learn how to use the journal abstracts at 1:10 p.m. Sign-up required for classes.

Concert - The Department of Music presents a noon-hour concert featuring pianist Valerie Candelaria in MacKinnon 107. The program includes works by Chopin and Liszt. Admission is free.

Seminar - "The Neo-Liberal Agenda in Latin America" is the topic of Henry Veltmeyer, director of the Institute of Development Studies at St. Mary's University in Halifax, from 1 to 3 p.m. in MacKinnon 237.

Nutritional Sciences Seminar - Stephanie Atkinson of McMaster University examines "Glucocorticoid-Induced Alterations in Intestinal Transport of Calcium and Trace Elements" at 4 p.m. in Animal Science and Nutrition 141.



Violinist Julie Baumgartel, top, and pianist Heather Toews are part of the trio Music Montage, which is performing at the Jan. 27 noon-hour concert.

Autoimmune Disease at 11:10 a.m. in OVC Learning Centre 1713.

Physics Seminar - Derek Leinweber of Ohio State University is guest speaker at 4 p.m. in MacNaughton 113.

Student Involvement and Leadership Series - "Leadership in the 21st Century" is the topic of this session, part of a biweekly series for student leaders and organizations. The session runs from 5:10 to 7 p.m. in the Eccles Centre.

WEDNESDAY, JAN. 26

Library Orientation - Learn to use the journal abstracts at 1:10 and 6:10 p.m., the sociology and political science databases at 10:10 a.m. and the agriculture databases at 3:10 p.m. Sign-up required.

Zoo and Wildlife Club Seminar - Patrick Redig of the University of Minnesota will discuss "Return of the Wanderer: Peregrine Restoration in the Midwest" at 7 p.m. in OVC Lifetime Learning Centre 1714. Admission is \$2.

THURSDAY, JAN. 27

Library Orientation - Learn to use the journal abstracts at 9:10 a.m., the business databases at 11:10 a.m. and the psychology databases at 2:10 p.m. Sign-up required.

Concert - The Department of Music presents a noon-hour concert featuring the trio Musical Montage on violin, clarinet and piano in MacKinnon 107. Admission is free.

Macdonald Stewart Art Centre

An opening reception for an exhibition of selections from the Department of Fine Art's print study collection runs from 8 to 10 p.m. At 7 p.m., Sue Daugherty gives a gallery talk on the show.

FRIDAY, JAN. 28

Library Orientation - Catalogue instruction begins at 2:10 p.m. Learn to use the Canadian information databases at 9:10 a.m. and

the agriculture databases at 11:10 a.m. Sign-up required.

Nutritional Sciences Seminar - Randal Buddington of Mississippi State University will talk about "Nutrition and Ontogenetic Development of the Intestine" at 11:10 a.m. in Animal Science/Nutrition 141.

Molecular Biology and Genetics Seminar - "Revolutionary Research Approaches in Mammalian Genetics Using ES Cells" is the topic of Andrew Reaume at 11:10 a.m. in Axelrod 028.

SUNDAY, JAN. 30

Arboretum - Take a closer look at snow crystals and their intricate patterns on a walk that leaves from the nature centre at 2 p.m.

MONDAY, JAN. 31

Library Orientation - Learn to use the journal abstracts at 2:10 p.m., the business databases at 9:10 a.m. and the psychology databases at 11:10 a.m. Sign-up required.

TUESDAY, FEB. 1

Physics Seminar - Jack Wilson is the guest speaker at 4 p.m. in MacNaughton 113.

WEDNESDAY, FEB. 2

Third Age Learning - This lecture series for retired people continues at 10 a.m. with retired English professor John Bligh and at 1:30 p.m. with Prof. François Paré, French Studies. Lectures are at the Arboretum Centre. Cost of each series is \$16.

Sigma Xi Lecture - Prof. Derek Bewley, Botany, winner of this year's Excellence in Research award from the Guelph chapter of the Sigma Xi Society, will speak on "The Drying Game" at 4:10 p.m. in Axelrod 100. An awards banquet will follow at the Victoria Park Golf Club. Banquet tickets are \$25 general, \$15 for graduate students, and are available from Prof. Stan Blecher, Ext. 3424.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek — A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

Feminist Spirituality, a study group looking at the range of spiritualities emerging from the women's movement, meets Thursdays at noon in UC 334.

The Lutheran Lunch Bunch of the Lutheran Students' Movement meets Thursdays at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533. □

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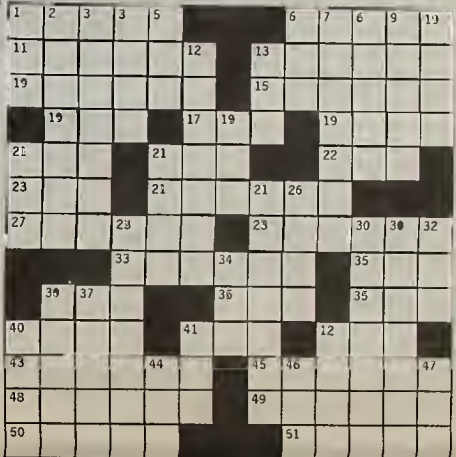
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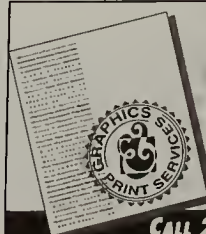
1. Greek sign post
6. Take place
11. Sum total
13. Treat unjustly
14. Army peddler
15. Approached
16. New Guinea city
17. Sort
19. Father
20. Twist together
21. West Indies magic
22. Distress signal
23. Native suffix
24. Air ball
27. Autocrat
29. List of names
33. Females of the ruff
35. Squealer
36. Go out with
38. Take nourishment
39. Sugar suffix
40. "Brinker"
41. —up (disgusted)
42. Stand out
43. I have found it!
45. Ruminants' stomach parts
48. Made expiation
49. Arm bones
50. Greek letter
51. Livestock shelters

DOWN

1. Owns
2. Vie with
3. Turns
4. Lounging slipper
5. Donkey: Fr.
6. Spanish cheer
7. Student groups
8. Brice-a-brac piece
9. Consumers
10. Counsel
12. Tax protection
13. Printing fluid
18. Ad—
20. Central
21. Double-reed instrument
25. Distance from side to side
26. Gone astray
28. Not past or future
30. Veteran actor

31. Oriental
32. Course: abbr.
34. Five-dollar bill
36. Fry quickly
37. Register
40. Noggin
41. Craze
42. Iwo —
44. New Zealand parrot
46. Chafe
47. Bro's sibling

**For crossword
solution, see page 4**



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THURSDAY, JAN. 20

Library Orientation - Drop-in tours run at 11:10 a.m. and 2:10 p.m. from the orientation area on the main floor. Catalogue instruction is at 10:10 a.m. and 3:10 p.m. Learn how to use the journal abstracts at 1:10 p.m. Sign-up required for classes.

Concert - The Department of Music presents a noon-hour concert featuring pianist Valerie Candelaria in MacKinnon 107. The program includes works by Chopin and Liszt. Admission is free.

Seminar - "The Neo-Liberal Agenda in Latin America" is the topic of Henry Veltmeyer, director of the Institute of Development Studies at St. Mary's University in Halifax, from 1 to 3 p.m. in MacKinnon 237.

Nutritional Sciences Seminar - Stephanie Atkinson of McMaster University examines "Glucocorticoid-Induced Alterations in Intestinal Transport of Calcium and Trace Elements" at 4 p.m. in Animal Science and Nutrition 141.

FRIDAY, JAN. 21

Library Orientation - Journal abstract instruction begins at 10:10 a.m. Learn how to use the computer catalogue at 3:10 p.m. Sign-up required.

SATURDAY, JAN. 22

Library Orientation - A drop-in tour begins at 2:10 p.m. at the orientation area.

SUNDAY, JAN. 23

Arboretum - Explore life beneath the ice of Victoria Woods pond on a walk that leaves from the nature centre at 2 p.m.

Library Orientation - A drop-in tour begins at 2:10 p.m. at the orientation area.

MONDAY, JAN. 24

Library Orientation - Drop-in tours leave at 10:10 a.m. and 2:10 p.m. from the orientation area. Catalogue instruction is at 6:10 p.m. Learn how to use the journal abstracts at 11:10 a.m. and the databases of Canadian information sources at 3:10 p.m. Sign-up required for classes.

Gerontology Seminar - "Employment, Caregiving and Family Life: More Than a Difficult Juggling Act" is the topic of Nancy Guberman of the University of Quebec at 12:10 p.m. in the FACS Building boardroom.

TUESDAY, JAN. 25

Library Orientation - Catalogue instruction begins at 11:10 a.m. Learn to use the journal abstracts at 2:10 p.m. and the biomedical sciences databases at 9:10 a.m. Sign-up required.

Veterinary Microbiology and Immunology Seminar - Noel Rose of Johns Hopkins University discusses "Myocarditis — A Paradigm of Virus-Induced

FOCUS

Been there, done that

Elderhostel opens windows on the world

by Maurice Oishi
University Communications

Elderhostel is the perfect avenue for the retiree who isn't the retiring sort.

Although he retired 10 years ago, environmental biology professor Maurice Smith never grew comfortable with the thought of joining the flock of snowbirds heading south.

A winter vacation in Florida? "I don't think so," says Smith. "Florida seems so touristy and busy. And my wife doesn't like packing bags and sleeping in a new place every night."

Instead, he's joined a growing wave of retired people who want to travel but keep on learning. Or, in Smith's case, keep on teaching.

To date, he has participated in 11 Elderhostel programs in North America and France. He's also taught general-interest courses in his area of expertise — bees — at four Ontario Elderhostels.

Participants in the program typically spend a week in one location and take three five-day "courses" during their stay. North American programs normally run a week. Overseas programs last up to three weeks, with each week spent in a new location offering a different course.

For Smith, the allure is not just the travel and the courses. "It's the people you meet, people who like to travel and learn and share these simple interests with you."

He never planned a sedentary retirement. Just four days after leaving the University, he was on a plane to start a consultancy project in Colombia. Then he and his wife, Catherine, learned of the Elderhostel program through friends and chose to give it a try. "We've yet to be disappointed," he says.

Although Smith considers himself a fan of Canada's cold months, "my wife likes to get away in the winter." With this in mind, they choose a time they want to travel, decide on a locale and open up the Elderhostel catalogue to find what's available.

With more than 45 countries participating in the program, "it hasn't been difficult to find an Elderhostel that fits the bill," he says.

In the United States, they've attended programs in Georgia, Alabama and Arizona. A high point was a program in the Bordeaux region of France. The first week there included courses on local history and architecture and the history of pre-Revolution France, as well as tours of the area's famous wineries.

The second week was spent at the home of a woman who runs a landscaping firm in the small town of Villeneuve sur Lot. "We were made to feel part of the family," says Smith. "We helped with the dishes and were taken to visit some of her clients. It was a wonderful way to get the feel of the country and its people."

The final week was spent in the village of Sarlat exploring the prehistoric paintings in the caves at Las Eyzies and Lascaux.

The Smiths have made friends through the program and sometimes make joint plans with them to attend Elderhostel programs. "I feel it's an adventure to be part of the group and know the group," he says. "That sort of camaraderie makes each trip unique."

The teaching aspect of the Elderhostel is almost old hat to Smith. Teaching a general-interest course in apiculture is something he did during the 1970s and early '80s as part of U of G's family summer campus program.

The children attending those programs were always inquisitive, says Smith. "I got a lot of stimulation from the younger ones. They were never hesitant about asking questions."

It's an attitude that he finds refreshing among his peers as well. "Retirees are quite inquisitive, too. Most people just know that bees make honey and sting. But by the end, they've found out that there's a lot more than that."

The return of winter has again fuelled the Smiths' wanderlust. They've applied to attend an



Maurice Smith

Elderhostel in Delaware in April. In September, Maurice Smith will lead his "The Wonder of Bees" course near Beaverton. For information about the program, write to Elderhostel Canada, 308 Wellington St., Kingston K7K 7A7. □

OAC Alumni Foundation seeks nominations for 1994 Hilliard Award

The OAC Alumni Foundation seeks nominations for the T.R. Hilliard Distinguished Agricultural Extension Award for 1994.

Presented annually to an Ontario resident who has made outstanding contributions to agricultural extension in the province, the award consists of a citation and \$1,000 to be used for an extension, research or educational project of the recipient's choice.

Nominees may be employed in agricultural extension by government, agricultural organizations, institutions, industry or the University of Guelph.

They may also be producers or

other individuals who have made an outstanding voluntary contribution to agricultural extension.

Nominations should be sent by Feb. 28 to the OAC Alumni Foundation c/o OAC Dean Rob McLaughlin. Nominations should include supporting background information and a brief summary statement prepared and signed by two nominators.

Award details are available from Ontario agricultural representatives.

The award is named in memory of the late T.R. Hilliard, a former deputy minister of agriculture and food. □

THE GLOBE AND MAIL

A live feed on the chicken channel

By MARY GOODERHAM
APPLIED SCIENCE REPORTER
TORONTO

Any dog owner who has delighted in the antics of a pooch responding to on-screen canines knows that television holds a fascination for some animals. But how do they actually perceive images on TV?

Frank Humik, a poultry scientist at the University of Guelph, is hoping to find out.



THE TORONTO STAR

French fries raise heart disease risks

GUELPH, Ont. (CP) — French fries prepared in commercial fryers of hot oil that researchers found raise risks of heart disease, a researcher at the University of Guelph says.

Through chemical analysis, Dr. David Hebert, a nutritionist at the University of Guelph, found that the oil used in commercial fryers is as old as water and contains a lot of trans fats, which are bad for the heart.

Record

GUELPH, Ont. (CP) — Six out of 10 children who are born in Guelph are now living in the city, according to a new study by the city's population committee.

The report says that the city's population is growing at a faster rate than in the past.

'Sandwich generation' missing job opportunities, says study

GUELPH, Ont. (CP) — Middle-aged Canadians caring for elderly parents and children at the same time are missing out on job opportunities, says a study released today by the University of Guelph.

The study found that the "sandwich generation" is growing in size and that many people in this group are having difficulty finding jobs.

Farmer

Another finding of the study is that the availability of jobs in the agricultural sector is declining.

The study also found that many farmers are having difficulty finding workers.

Test developed for sheep disease

GUELPH (CP) — A team of Canadian and U.S. researchers has developed a test for an incurable sheep and goat disease, which costs farmers millions of dollars each year.

Cystic lymphadenitis, which causes large abscesses in the animals' skin and internal organs, affects 10 to 20 per cent of the herds in Australia and parts of New Zealand.

The test, which was developed by a team of researchers from the University of Guelph and the University of California, can detect the disease in sheep and goats.

CBC

The study also found that many farmers are having difficulty finding workers.

The study also found that many farmers are having difficulty finding workers.

U of G made the news in '93

The needs of the 50something generation and the discovery that chickens respond to stimuli on TV were among U of G's news releases that attracted media attention across the country and beyond in 1993.

University research again claimed the lion's share of publicity in 1993. Our researchers were featured in newspapers and magazines across the country. It was a bumper year for electronic coverage, including CBC TV's *The Nature of Things*, CTV's *Canada AM*, CBC radio's *As It Happens* and *Morningside* and the Copley Network, an extensive collection of U.S. radio stations.

The media and public were especially interested in studies on the "sandwich generation," the name given to middle-aged people who must care for both growing children and aging parents. Other national studies carried out by the Gerontology Research Centre, the Department of Psychology and the Department of Family Studies received broad media coverage.

Research on food and nutrition, crops and animals also proved popular with the media.

Books published by Guelph faculty captured national media attention and applause, particularly *Food, Sex and Salmonella* by Prof. David Walther-Toews, *Population Medicine*, and *George Grant, A Biography* by Prof. William Christian, Political Studies.

Campus events that drew media attention last year included the appointment and installation of President Mordechai Rozanski, Premier Bob Rae's launching of the Guelph Food Technology Centre, the 15th annual Sexuality Conference and the annual Chappel lecture by Carl Djerassi, creator of the birth control pill.

Other well-publicized events included the opening of the new pool and OVC's Lifetime Learning Centre, the University's involvement at the Royal Winter Fair and French Studies professor François Paré's receipt of a Governor General's Literary Award.

One of the key ways the media are encouraged to cover U of G research is a weekly mailing of news releases sent out by External Communications in University Affairs and Development. Many releases started the phones ringing with requests for interviews from radio, television and print journalists. Stories that received national coverage include:

- Human biologists say caffeine should be banned for Olympic endurance competitors because it can alter performance significantly.
- A veterinarian urges that sunscreen be used to protect animal body areas not covered by hair because ultraviolet rays can cause health problems.
- Nutritional scientists say fast-food french fries are a health threat because they're high in trans-fatty acids, which contribute to heart disease.
- A psychology professor studies why boys sustain far more injuries than girls. □



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AT GUELPH

Volume 38 No. 3 Established in 1956

University of Guelph, Guelph, Ontario January 26, 1994

FIRST GLANCE

How cold was it?

U of G didn't fare too badly last week, considering the depth of the cold spell. At its coldest, the temperature dropped to -27.6 C on campus, compared with a balmy -13.3 C during the same period last year. Leaks in water mains and mountains of ice at the foot of windows left no permanent scars, but ventilation problems in buildings like Thornbrough had occupants scurrying for their coats and gloves. On Monday, the spell broken, Thornbrough residents revisited summer. In the office of School of Engineering administrative assistant Peggy Coghlan, the temperature was up to 32 C. "But I'm not down to a hikini," she joked. Kudos to Physical Resources for "coming out as soon as the problems started," said Coghlan. "They got right to them."

Just a reminder

At Guelph has a new deadline for receiving copy. Letters to the editor, coming events, classifieds and other editorial copy must reach *At Guelph* on Level 4 of the University Centre by Wednesday at noon. And don't forget to keep an eye out next month for the *At Guelph* readership survey. Everyone who fills out a survey will be eligible for a draw for prizes.

Inside:

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The birds of winter . . 8

Thought for the week

Laughter is a tranquilizer with no side effects.

Arnold Glasow



Come on in, the water's fine!

It's only a few metres from the whirlpool by the Athletics Centre gold pool to the snow-covered patio outside, but members of the

Gryphon swim team finds it's a distance better measured in degrees. Defying the thermometer during last week's cold spell are,

from left, Brendon Larson, Paul Donald, Steve Sweetnam and Bart Hulshof.

Photo by Maurice Dishi, University Communications

Senate calls special meeting on Sulawesi

by Sandra Webster
University Communications

Senate will convene for a special session Feb. 1 to deal with a Senate Committee on International Activities (SCIA) recommendation that the external review of the Sulawesi Regional Development Project (SRDP) be made public.

Senators are encouraged to pick up a copy of the report in the Secretariat's Office on Level 4 of the University Centre. Responses to the report are also available, including those made to SCIA by project director Tim Babcock and former director Prof. Harry Cummings, University School of Rural Planning and Development.

Also available is a letter to President Mordechai Rozanski from Edwards McKinnon of Jakarta, an international development field consultant and Indonesian resident for more than 20 years. McKinnon, a member of the review panel during its 1992 visit to Indonesia who also functioned

as an interpreter, did not participate in drafting the final report and only saw a copy of it recently.

If the report is released, SCIA will invite written responses to it by Feb. 28. They should be sent to the committee care of the Senate Secretariat.

Senators were scheduled to consider SCIA's recommendation Jan. 18, but acting Senate chair

Prof. Iain Campbell, acting academic vice-president, informed them that the Executive Committee wanted to remove the item from the agenda because of the availability of new relevant information that SCIA had sought previously but had not had time to consider.

This new information came back with Rozanski, who made a fact-

finding visit to Indonesia Jan. 10 to 17, meeting with many people, including the Canadian ambassador to Indonesia — 1968 OAC graduate Lawrence Dickenson — members of the embassy staff and senior officials in Home Affairs and Foreign Affairs. The president also met with leading independent human rights and non-

See *INDEPENDENT* on page 2

Strategic-Planning Commission seeks wide, early participation

The Strategic-Planning Commission is taking steps to ensure that everyone on campus has a voice in the planning process.

The commission will soon be holding open University-wide meetings and is setting up an electronic mailbox, says commission co-chair Prof. Connie Rooke,

chair of the Department of English. The commission is also inviting all members of the University community to submit early briefs, suggesting issues that should be addressed, she says.

"We want to ensure that the best ideas are brought forward at an early stage of the planning process

and that everyone at the University has a chance not simply to react to recommendations, but to affect the framing of the questions," says Rooke. "Wide — and early — participation is vital to the success of the strategic-plan-

See *STRATEGIC* on page 2



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Farcus

by David Wainwright
Gordon Goulet

"I can't wait to tell Simmons I finally got his vacation switched to July."

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GRAD NEWS

Jim Kemp, a PhD candidate in the Department of Botany, will defend his thesis Feb. 4 at 1 p.m. in Room 309 of the Axelrod Building. The topic is "Floral Morphology and Pollination Biology of *Rosa setigera* (Michaux)." His adviser is Prof. Usher Posluszny. □

Commission to hold five open meetings

Continued from page 1

ning process."

Much of the commission's work over the next few months will take place within eight task forces, she says, and although many of these meetings will be open, "it's not feasible to grant speaking privileges to visitors other than those who have been specifically invited to consult with a particular task force."

In addition, "people may well have ideas and concerns that overlap the mandates of two or more of the task forces or seem to reside outside them altogether."

That's why the commission has decided to hold five open meetings to air community concerns. Three of the meetings have been designated as college meetings and two as University meetings, but all will address University-wide issues and are open to everyone on campus, Rooke says. The following schedule has been arranged:

- Jan. 31 — College of Arts and College of Social Science, noon to 1 p.m.
- Jan. 31 — University meeting, 4 to 5 p.m.
- Feb. 1 — CBS and CPES, 9 to 10 a.m.
- Feb. 1 — University meeting,

noon to 1 p.m.

- Feb. 2 — FACS, OAC and OVC, noon to 1 p.m.

Locations for the meetings will be announced.

The commission has also set up an electronic mailbox, where members of the University committee can submit questions and ideas. Members of the commission can be reached through the email address SPC@uoguelph.ca. Rooke and co-chair Prof. Bev Kay, chair of the Department of Land Resource Science, will ensure that questions and suggestions are forwarded to the appropriate groups, she says.

Individuals, groups and units are also invited to submit an early brief to the commission, describing issues they believe should be addressed. Later, many individuals and units will receive requests for more information and analysis, she says.

"The early brief is a means of ensuring that concerns are heard at an early stage of the commission's deliberations, when we are still framing the questions to be addressed," she says. "It also allows people to frame their concerns without worrying about which task force they should be addressing on which point." □

OUR PEOPLE

Two teams judge livestock at Royal

Two teams represented U of G at the annual livestock judging competition at the Royal Agricultural Winter Fair in November.

The OAC diploma team — Jeff Sayles, Jason French, Bryan Fieldhouse and Rob Eby — placed second overall, first in the dairy division and second in the beef division. The OAC degree team — Wendy Buchner, Alan Emiry, Julie Weitzel and Alan Groeneveld — placed second in the swine division and 10th overall. Individual awards went to Sayles for top dairy judge and French for top sheep judge. Buchner and Eby also placed in the top 10 judges.

Family studies prof gives talks

Prof. Judy Sheeshka, Family Studies, presented the following papers at a meeting of the Institute for Clinical Evaluative Sciences in Ontario: "Making Health Services Research Relevant" and "The Development of a Model Program to Promote Healthy Eating, Enjoyable Physical Activity and Positive Self-Image to Children." She also participated in a panel on promoting healthy weights in Grade 6 students at the Ontario Public Health Association Conference.



Judy Sheeshka

Two staff retire

Vern Porter of Purchasing has retired after more than 11 years with the University. May James retired from the OAC Dean's Office Dec. 31 after 26 years at U of G.

Conolly settling in at Trent

Prof. Leonard Conolly, U of G's former acting academic vice-president, is settling in as Trent University's fifth president and vice-chancellor. In a letter to the Trent community in the university's newspaper, *Fortnightly*, Conolly says he has been accepted as a member of the Department of English Literature and will be teaching a course this fall on English/Canadian drama. His wife, Barbara, will continue in Peterborough with her work as administrator of the Canadian Children's Literature Program at U of G. □

Independent information 'sheds new light' on Sulawesi review

Continued from page 1

government organization activists such as Adnan Buyung Nasution, head of Lembaga Bantuan Hukum, the national, independent legal aid foundation in Indonesia.

Rozanski informed the Indonesian government directly about the report, met with the SRDP field team and gathered independent information that SCIA requested. This included McKinnon's Jan. 15 report, which "sheds new light" and "fills in some gaps" in the external review, Campbell told senators.

SCIA chair Prof. Bruce Sells, dean of CBS, said that early in the process, the committee felt "uncomfortable about not having the McKinnon report and not knowing why he did not participate in writing the report. SCIA believes that it must have all information before it considers its response to the report and drafts its recommendations. SCIA also feels very strongly that this is a serious matter and that all relevant information should be gathered and shared with Senate so there can be informed academic debate. This is why the Executive Committee has requested a special session of Senate."

The committee hopes to present a report to Senate no later than April, outlining its response to the external review document and making recommendations. The response will incorporate all relevant documents, including written comments received.

The special meeting of Senate begins at 5 p.m. in Room 200 of the Chemistry/Microbiology Building.

The external review panel was appointed in 1992 by academic vice-president Jack MacDonald on SCIA's behalf following heated campus-wide debate on the Sulawesi project. The original panel consisted of Meyer Brownstone, chair of OXFAM Canada and director of York University's Centre for Research on Latin America and the Caribbean; Clovis Demers, vice-president of Montreal's International Centre for Human Rights and Democratic Development; and a third member. McKinnon was appointed later after the third member dropped out.

The reviewers were asked to determine if the University's involvement in SRDP was adhering to the Senate Policy on University Involvement in International Activities in three areas:

- possible violations to academic freedom;
- a possibility that SRDP activities or operations were aiding human rights violations or environmental destruction in Indonesia; and
- a possibility that SRDP's involvement might lend legitimacy to the government or agencies responsible for human rights or environmental violations.

Later, SCIA expanded the panel's man-

date to include a review of the policy and procedures at U of G.

Funded by the Canadian International Development Agency (CIDA), SRDP is a \$36-million project that began in April 1984 and is expected to end in 1996. It is U of G's largest-ever overseas project and one of the biggest CIDA contracts a Canadian university has held.

Based in Jakarta, the project focuses on Sulawesi, an island almost as large as England and Scotland combined, with 12 million people living on meagre incomes from the proceeds of farming and fishing. SRDP advisers have worked with farmers to produce two annual rice crops instead of one and to grow healthier cocoa trees. They have also worked with village groups to clean up drinking water and to establish their own regular village meetings to plan economic, social and cultural activities.

In all its projects, SRDP aims to train local officials to improve bottom-up planning; alleviate poverty and concern for basic needs of marginal groups; ensure equitable distribution of development benefits to women and men; promote sustainable development at environmental, economic, social and institutional levels; develop community groups and non-government organizations; and transfer skills and knowledge.

SRDP employs a project director, 13 full-time advisers in the field — U of G profes-

sional staff and a graduate student — and three staff on campus — an administrator, a research and publications co-ordinator and a secretary. Numerous short-term consultants — on and off campus, Canadian and Indonesian — are hired for consulting and training in Indonesia.

Enrolment down

In other Senate business Jan. 18, Prof. Tammy Bray, acting associate vice-president, academic, reported enrolment figures for the winter semester. Total full-time, part-time, visa and associate diploma undergraduate enrolment is 12,901, down 2.6 per cent from last winter's 13,242.

Senators approved the addition of CPES graduate student Floyd Kelly to the Senate Committee on University Planning.

They also approved three new awards — the Michael J.F. Thompson Scholarship, the Bambi Ann Barrett-Dagenais Memorial Bursary and the Pari K. Basur Graduate Award — and revisions to the South Durham Veterinary Association Bursary, the Ciba Scholarship and the OVC Graduate Student Recognition Award.

The Student Senate Caucus presented the president and Prof. Connie Rooke, chair of the Department of English, with T-shirts in recognition of their visits to students to explain the proposed income-contingency repayment program and to discuss an anticipated increase in tuition fees. □

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At Guelph headlines top stories and coming events can also be accessed on GRAIFF. Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, Fax: 519-824-7962. Office hours: 8:30 a.m. to 4:45 p.m.

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Please Recycle

Three to receive honorary degrees at convocation

University of Toronto sociologist Raymond Breton, Ontario deputy minister Thomas Brzustowski and pathologist Reginald Thomson will receive honorary degrees at winter convocation Feb. 4 and 5. Retired professor Eleanora Cebotarev, Sociology and Anthropology, will be named professor emerita.

More than 600 students will graduate at four ceremonies in War Memorial Hall — three on Friday and one on Saturday.



Raymond Breton

Raymond Breton

Breton is a renowned scholar in the areas of ethnic communities, language policy, Canadian unity and disunity, Quebec society and politics and French-English relations. He has written widely on student aspirations and career decisions, native studies and social movements.

In a 1964 paper, he coined the term "institutional completeness" to describe the complexity of community organizations that meet the needs of members. It quickly became part of the sociological vocabulary for pluralism, multiculturalism and ethnic and racial minorities.

A graduate of the University of Manitoba, the University of Chicago and Johns Hopkins University, Breton taught at the

University of Montreal, McGill University and Johns Hopkins before coming to the University of Toronto in 1969. He has been a visiting professor at the University of Augsburg in Germany and was active for many years in a Polish-Canadian academic exchange.

Breton is the author of 10 books and editor of four, and has written more than 40 articles and book chapters. His most recent book is *Why Meech Failed: Lessons for Canadian Constitution Making*.

Breton will receive his honorary degree and give the convocation address at the 10 a.m. ceremony Friday for graduates of the College of Social Science.

Anyone interested in meeting with Breton later is invited to an informal gathering being sponsored by the Department of Sociology and Anthropology from 2 to 3 p.m. in Room 625 of the MacKinnon Building.

Thomas Brzustowski

Brzustowski has served with the provincial government since 1987, first as deputy minister of colleges and universities and now as deputy minister in charge of the Premier's Council on Economic Renewal. This group of representatives from business, labor, education and government provides strategic policy advice on economic issues.

Brzustowski holds a master's and PhD in aeronautical engineering from Princeton University and was a professor of mechanical engineering at the University of Waterloo from 1962 to 1987. He served a term as chair of the department of mechanical engineering and another as associate dean of engineering for graduate studies.

He was vice-president academic of Waterloo from 1975 to 1987, then was appointed provost. He left this position a few months later to join the government.

Brzustowski is a fellow of the Engineering Institute of Canada and the Canadian Society for



Thomas Brzustowski

Mechanical Engineering and holds an honorary diploma from Loyalist College.

Brzustowski will receive his honorary degree and give the convocation address at the 10 a.m. ceremony Saturday for graduates of CPES.

Reginald Thomson

Thomson has had a distinguished career as a pathologist, teacher, researcher, academic and scientific writer.

He received his DVM and M.V.Sc. degrees from the University of Toronto and a PhD from Cornell University in 1965. He joined the faculty of OVC that year and served as chair of the Department of Pathology from 1969 to 1979.

In 1981, Breton became a professor of veterinary pathology at the University of Saskatch-



Reginald Thomson

ewan. He served as planning coordinator for the Atlantic Veterinary College, then became its founding dean in 1983, a post he held until his retirement in 1990.

Breton is the author of the undergraduate text *General Veterinary Pathology* and served as editor of the *Canadian Journal of Comparative Medicine* for 16 years. He has received many honors, including the Norden Distinguished Teacher Award in 1971 and the C.L. Davis Foundation Award for Sustained Excellence in the Teaching of Veterinary Pathology in 1993.

He was named Alumnus of Honor by the U of G Alumni Association in 1986 and received an honorary doctor of laws degree from the University of P.E.I. in 1993.

On the international scene, he was active as an examiner for the American College of Veterinary Pathology, a post that took him to the universities of Nairobi, Baghdad, Ibadan and Gadjah Mada in Indonesia.

He worked with Canada's International Development Research Centre to establish an East African trypanosomiasis research project.

Thomson will receive his honorary degree at the 2:30 p.m. ceremony Friday for graduates of FACS, OAC and OVC. Ken Murray, interim director of Alumni Affairs and Development, will give the convocation address.

Eleanora Cebotarev

A pioneer in the study of women in international development, Cebotarev is a scholar of gender and development issues, especially in Latin America. She developed the idea for the University School of Rural Planning and Development and helped found the College of Social Science Collaborative International Development Studies (CIDS) program.

Cebotarev joined U of G in 1970. Over the years, she has developed links with many universities and research institutions in Latin America and with Moscow State University. Although retired since August, she serves as director of the CIDS program and continues to teach and supervise graduate students.

Born in Czechoslovakia, Cebotarev was raised in Paraguay, where she began her career in the ministry of agriculture's extension services division. Later, she joined the UN Food and Agriculture Organization.

In her mid-30s, Cebotarev returned to her studies, receiving a B.Sc. from the University of West Virginia and master's and PhD degrees from Pennsylvania State University. She will be named professor emerita at the Friday morning ceremony.

Prof. François Paré, French Studies, will give the convocation address at the 7:30 p.m. ceremony Friday for graduates of the College of Arts. □

Fund targets needs of employees with disabilities

by Maurice Oishi
University Communications

The University has set up a \$25,000 fund to ensure that people with disabilities can fully demonstrate their abilities in the workplace.

The Employment Accommodation Fund, administered by the Employment and Educational Equity Office, is available to help pay the costs of accommodating the needs of employees and job applicants with disabilities.

The conventional setup of workplaces often excludes people with disabilities, says Janet Kaufman, director of employment and educational equity. To demonstrate their potential, employees with disabilities don't necessarily need more tools, she says. They simply need different tools.

The fund will cover people with both ongoing and short-term disabilities for needs such as building access, support services, workstation modification such as special fur-

niture, and technical aids such as braille computer printers and specialized keyboards.

At an open meeting about the new fund Jan. 18, Owen Mahoney of the Ontario Human Rights Commission said that accommodating people with disabilities is entrenched in the Ontario Human Rights Code.

"Accommodating someone with a disability is not a favor," he said. "It's a responsibility of an employer and the right of an employee."

Workers must inform their employers of their needs and work in mutual good faith to ensure that the job gets done, said Mahoney. In many cases, this requires creativity more than money. Allowing employees to work flexible hours, for example, may make it easier for those with mobility limitations to avoid transportation problems, he said.

Mahoney said the fund "sends a message to people that there will be a place for them if they're willing to do the job and they're willing to learn."

The new fund will experience growing pains, says Kaufman. Although most requests will receive full support from the fund, grey areas are bound to arise. She notes that the Ontario Public Service has already dealt with many of these issues and may serve as a model for U of G.

An advisory committee made up of representatives from the Environmental Health and Safety Department, the Centre for Students with Disabilities, the Employment and Educational Equity Office and Human Resources, as well as other resource persons to be called on as required, will review submissions for funding.

The fund will be reviewed in its fourth year and increased, if necessary, to establish a normal annual allocation.

Applications will be accepted throughout the year. For more information, call the Employment and Educational Equity Office at Ext. 3474 or 767-0615 (TDD).



The United Nations General Assembly has proclaimed 1994 International Year of the Family. The theme is "Family: Resources and Responsibilities in a Changing World."

U of G has a wealth of expertise in family studies, which will be highlighted throughout the year as part of this celebration. This will include lectures, articles and special initiatives. Watch future issues of *At Guelph* for details. □

Students stage forum to spur talk on teaching, learning

Chris Parent felt frustrated. And so did many of his fellow students. Their frustration was targeted at the educational system at U of G.

"We had concerns about teaching quality, the merit of some subject matter and just the basic purpose of a university education," says Parent, an eighth-semester zoology student.

But rather than just gripe to each other about these concerns, Parent and several other students decided to organize a forum on teaching and learning for the entire University community. It's slated for Feb. 5 from 10 a.m. to 3:30 p.m. at the Arboretum Centre.

The idea is to bring together students, faculty and staff in a non-threatening forum where they can air their views on common issues, says Parent. "Students don't often see the results of what they can do, and that's frustrating. The upshot of this conference is that you can sit across the table from professors, share your concerns and work to make change."

The conference also aims to raise the profile of teaching and learning on campus and to come

up with ideas for improvements. Omer Yukseker, a seventh-semester physical sciences major and one of six student organizers of the forum, says it will be loosely structured, giving participants an opportunity to discuss whatever topics are relevant to them.

"Nothing should be imposed by the organization," he says. "That's one way to make people feel committed to the process."

The forum will begin with short introductory talks by Parent; Prof. Connie Rooke, chair of the Department of English; Prof. Barbara Lehman, Mathematics and Statistics; Prof. Jonathon Schmidt, Environmental Biology; history graduate student Susan Mulley; and one other undergraduate student.

Each will discuss an issue of personal interest or concern regarding either the values and priorities implicit in the learning environment or the mechanics of education. The panel will be moderated by Brian Sullivan, associate vice-president for student affairs.

Parent, who is also a student

senator and member of the Strategic-Planning Commission, plans to discuss the role of communication.

"In the hustle and bustle of the semester system, we don't take the time to step back and look at what we're doing and why," he says. Common goals among community members are key, he says. "Improved communication is a way to start looking at these."

After the presentations, participants will be asked to suggest topics of importance to them, then will break into small working groups to discuss them. At the end of the day, they will present their ideas for discussion to the group as a whole.

Prof. Sandy Middleton, Zoology, who served as a resource person for the forum, sees great potential in it for opening up dialogue on campus.

"I'm increasingly aware that there are two cultures on campus — a student culture and a culture of professors," says Middleton.

"How well the two mesh, that's the question."

Overcoming the limiting perspectives of either culture should be a central goal of a university, he says. "A university isn't just a community staffed with professors. Students should be an equal partner in the community. I hope that faculty can learn from the students as well."

How will Middleton judge the conference? "If at the end of the day, there are three or four concrete issues that they can present to the University, it'll be time well spent."

For Yukseker, success won't be measured by how many new ideas are generated by the forum. "Nothing new will come out of this, nothing that someone hasn't thought of or said before," he says. "The real goal is to encourage dialogue and build on the issues."

The forum is free and can accommodate about 130 participants on a first-come, first

served basis. About half the space has been allocated to students.

Student organizer Munira Meherali says response has been terrific, particularly from faculty. "I think we've really hit a nerve," she says. "It's something everyone wants to comment on, but they haven't had an avenue in the past."

The other student organizers are Russell Bonduriansky, Yona Lunskey and Michael Maguire. Prof. Ron Stoltz, Landscape Architecture, co-ordinator of instructional support services in Teaching Support Services (TSS), was also involved.

The forum is sponsored by the offices of the associate vice-president for student affairs and the associate vice-president, academic, TSS, the Counselling and Student Resource Centre, college deans and student governments.

To register for the forum, call TSS at Ext. 2427. □

Solomon earns kudos for teaching dedication

Environmental biology professor Keith Solomon, director of the Guelph node of the Canadian Network of Toxicology Centres, has received a prestigious education award from the Society for Environmental Toxicology and Chemistry (SETAC).

Sponsored by U.S.-based ABC Laboratories, the award was presented in Texas last month by Paul Mehrle, president of SETAC, a North American organization of researchers involved in toxicological environmental remediation.

Along with his own research, Solomon initiated Guelph's undergraduate toxicology major — the first of its kind in Canada — and helped develop the Guelph-Michigan State University graduate toxicology mini-symposium.

Solomon sees the role of a researcher in both scientific and philosophical lights. "If we don't support students' educational aspirations, they won't be able to

forge a link with the whole academic and research network, or academic tree, as I like to call it."

"In the world of research, this network is key to the information exchange process and hence the learning process. What I try to accomplish in my courses and other forums is to include the students directly in the research process. This prompts them to interact, innovate, learn and think of new scientific questions."

One of Solomon's main interests is the relationship among pesticides, agriculture, the environment and human health. In the third-year course "Pesticides and the Environment," which he has taught since 1978, he challenges students with a research proposal in place of a term paper.

SETAC is another major forum through which Solomon is able to encourage toxicology students. He was the society's program chair in 1986, co-chair in 1989 and a board member for three



Keith Solomon

years. He initiated the annual awards for student papers at SETAC conferences.

Several of Solomon's students have been among the recipients of these awards.

■ Karsten Liber won for best student poster in 1988 and best student presentation in 1989.

■ Gary Fan won for best student poster in 1990.

■ Pamela Martin won in 1991 for best student paper published in the journal *Environmental Toxicology and Chemistry*.

■ PhD student Dean Thompson won in 1993 for best student paper in the journal. □

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EYC adopts new deadline

The Ontario government's Environmental Youth Corps (EYC) program has adopted a single deadline for 1994/95. All proposals must be postmarked no later than Feb. 11 whether they pertain to a spring/summer or fall/winter project. That means they must be submitted to the Office of Research for approval by Feb. 7.

The ministries involved in the EYC program — Agriculture and Food, Environment, Northern Development and Mines, Culture, Tourism and Recreation and Natural Resources — will no longer accept faxed proposals.

Application forms are available from the Office of Research in Room 224 of the Reynolds Building. □

If the shoe fits . . .

Effective footwear a balance of softness, strength

by Margaret Boyd
University Communications

How a shoe fits at the heel is as important as having adequate cushioning to lessen injury risk. That's one of the early findings of a U of G study that's looking at the effect of exercise on the human foot and leg.

"The best shock absorber is the heel fat pad, which consists of one to 1 1/2 centimetres of fat under the heel," says Prof. Mario LaFortune, Human Biology. "If the heel of the shoe does not fit well, the fat pad is not as effective."

This discovery could have important benefits in designing shoes for the elderly as well as for sports, he notes.

LaFortune, an expert on the biomechanics of sports activities, bases his findings on a new method he has developed to measure shock and force. Using a "human pendulum" — a swinging apparatus that allows each subject to be tested for various conditions exactly alike — he is able to accurately measure the combination of different effects as well as muscular activation.

The human pendulum works by swinging a subject towards a wall at a set velocity while the person's leg is fixed in the same orientation as when walking or running. The wall has a force plate for measurement, and the subject's footwear is fitted with an insole containing 32 miniature sensors. In addition, a transducer is attached to the shin to measure shock waves.

Traditional methods of studying force and shock — such as force platform measurements — are prone to error because they don't account for variations in the way feet and legs adapt to footwear conditions, says LaFortune. The human pendulum, on the other hand, keeps variables uniform.

He has already studied more than 100 subjects on the pendulum; this pilot work will continue with studies looking at human perception of hard surfaces. Subjects will be asked to rate the severity of impact and the pressure on specific locations in the foot. Transducers will be used to measure the shock waves reaching the brain and travelling through the leg. A modified Borg scale, which deals with exertion and pain of sensation, will be used in the measurements.

"By measuring it all, we can determine the combination of factors that people use to find out if a surface or a shoe is too hard," says LaFortune. This study will provide information for designers of flooring surfaces as well as footwear.

LaFortune has extensive research experience with athletic footwear and has collaborated with NIKE Inc. to measure lower-leg shock in runners. He has also worked with Olympic athletes at the Australian Institute of Sports in the sports medicine and sports science departments. His current research on perception is funded by the Natural Sciences and Engineering Research Council. □



This human pendulum designed by Prof. Mario LaFortune measures the amount of shock and force felt by the foot and leg. Photo by Margaret Boyd, University Communications

Biochemists first to reveal function of cancer protein

by Kathe Gray and
Desmond Hutton
Office of Research

Cancers such as colon cancer and leukemia can be resistant to chemotherapy drugs either at their onset or after several rounds of treatment. This resistance has been linked to the activity of a naturally occurring cellular "drug pump" called P-glycoprotein, which — for the first time — has been isolated and reconstituted by a U of G research team.

Led by Prof. Frances Sharom, Chemistry and Biochemistry, the team is working towards the development of specifically designed agents to reverse multi-drug resistance.

P-glycoprotein is pivotal to their studies. Located in the cell membrane, P-glycoprotein transports chemotherapy drugs out of the cancer cell — where they work to kill the disease — and deposits them in the intercellular fluid, where they are ineffective. The pumping action of P-glycoprotein is powered by using a molecule known as ATP, the energy "currency" of the cell.

A group of pharmaceuticals called chemosensitizers has been found to combat drug resistance by blocking the P-glycoprotein pump. Understanding more about how P-glycoprotein works will enable scientists to design better chemosensitizers and enhance the chance of treating certain cancers.

"The chemosensitizers used in therapy now were all found by accident," says Sharom. "They are all drugs used in the treatment of other health problems that researchers noticed also increased

susceptibility of resistant cancer cells to chemotherapy drugs."

Verapamil, a heart drug, and cyclosporin A, an immunosuppressant, are two examples of accidentally discovered chemosensitizers.

Because these drugs are used to treat specific medical conditions, they have strong side effects on otherwise healthy cancer patients. Verapamil can increase heart activity to dangerous levels; cyclosporin A can lower resistance to infection. In addition, these chemosensitizers must be given in such high concentrations that toxicity is a problem.

So researchers started working towards chemosensitizers that serve their purpose without devastating side effects. "To study the properties of P-glycoprotein, we needed to remove it from the cell

membrane, away from the complexity of the intact cell," says Sharom, "but it also needed to be in a functional form." The researchers measure the ability of the P-glycoprotein to break down ATP (ATPase activity) as an indicator that it remains functional.

Team member Carl Doige, a PhD student in Sharom's lab who has gone on to do postdoctoral work at the University of California, Berkeley, developed the means of isolating functioning protein from the cell as part of his research at Guelph. The goal was to purify the protein to allow further study of its biochemical properties.

"(This) work made it possible for us to partially purify P-glycoprotein in an active form," says Sharom. "We were the first team in the world to report having

done so."

Research assistant Xiaohong Yu put a preparation of the protein back into an artificial membrane structure called a proteoliposome — similar to the cell membrane from which the protein was extracted — then proved that the protein does indeed pump chemotherapy drugs across the membrane. Sharom says this is another first in cancer research.

With the reconstituted P-glycoprotein, she will be able to investigate the mechanism of the drug transport system, particularly how it is powered by ATP and influenced by chemosensitizers.

Sharom's team is also interested in examining the unusual broad specificity of P-glycoprotein.

Other transport proteins can usually transport only one specific type of molecule, but P-glycoprotein can transport many different drugs.

Graduate student Giulio Di Diodato has shown that P-glycoprotein can also transport small non-polar peptides (chains of amino acids). Sharom wants to find out whether some of these peptides can also act as chemosensitizers and block the P-glycoprotein pump.

"Peptide chains can be manufactured easily and inexpensively," she says. "If some peptides can block drug transport, then maybe some relatively non-toxic and effective chemosensitizers can be developed quickly." □

KAMIL JUICES

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New medical studies suggest that some of the components associated with grape seeds, skins and stems, and subsequently wine, may indeed have some anti-aging potential or protective effects on human cells under oxidative stress. The moderate consumption of red wine which contains certain natural antioxidants may be the answer to the phenomena of aging. As stated by Prof. Roy L. Williams from Virginia Old Dominion University in the United States.

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NOTICES

Distress centre

The Guelph Distress Centre needs volunteers to answer their telephones. Volunteers must be able to respond to crisis calls from people throughout the community and must be willing to work a four-hour shift every month for a minimum of one year. A 10-week training program for volunteers begins at the end of February and meets once a week. Call the centre at 821-3761 for more information.

Eating disorders

The Counselling and Student Resource Centre will mark Eating Disorder Awareness Week Feb. 1 to 7 with a series of events on the theme "Celebrating Our Natural Sizes." On Feb. 1, there will be a discussion of "Body Image, Self-Esteem and Weight Concerns" from 5 to 6:30 p.m. in the Athletics

Centre. On Feb. 2, learn more about "Women and Body Image and the Effects of the Media" from noon to 1 p.m. in Room 318 of the University Centre. Also on Feb. 2, there will be an information session on eating disorders from 7 to 8:30 p.m. in UC 442. An Eating Disorder Awareness Fair will run Feb. 3 from 10 a.m. to 2 p.m. in the UC courtyard. During the fair, there will be a special price on soup and bread at lunchtime in Centre Six.

Engineering awards

The Canadian Council of Professional Engineers offers six graduate scholarships to promote excellence in the Canadian engineering profession through advanced studies and research. Deadline for applications is May 1. For more information, write to

the National Scholarship Program, Canadian Council of Professional Engineers, 401-116 Albert St., Ottawa K1P 5G3.

Waterloo art

A display of works by third- and fourth-year students at the University of Waterloo is in the Zavitz Gallery until Feb. 3. The show is an offshoot of the practice and pedagogy exchange that took place a year ago between Waterloo and U of G. A closing reception will be held Feb. 3 from 7 to 9 p.m.

Study in France

Third- to seventh-semester business students who want to study at SupdeCo LaRochelle in France during the fall semester should call Prof. Francis Tapon, Economics, at Ext. 3551 or 3889 for information and application forms.

CIDA awards

Feb. 15 is the next deadline for the Canadian International Development Agency's Awards for Canadians. For more information, visit International Education Services on Level 4 of the University Centre.

Fair volunteers

The Canada-Wide Science Fair needs student volunteers. The fair runs from May 15 to 22 at U of G. Volunteers are needed as tour guides, to work on a newspaper to be published during the week of the fair, as parking attendants, for clerical support and to fill various other responsibilities. For more information, call Sylvana Tedesco at Ext. 2055.

Youth exchange

Roofops Canada Foundation will run a co-operative youth exchange to the Philippines beginning in March. For details, call 416-366-1445 or visit International Education Services on Level 4 of the University Centre.

Scholarship set up

A scholarship has been established at U of G in memory of Dawn Morris, founder of the Canadian International Farm Equipment Show and the first woman to serve on the board of directors of the Canadian Farm and Industrial Equipment Institute. The Dawn Morris Memorial Scholarship will recognize students who show outstanding achievement in agricultural marketing. Contributions can be made to the scholarship through Alumni House.

Cheque it out!

OAC's Aggie Week Committee recently presented Rainbow Programs for Children with a cheque for \$4,000, proceeds from the committee's 1993 fund-raising efforts.

On exhibit

A display of drawings by Tom McCullough continues at the Guelph Artisans Store in the

Eaton's Centre until Jan. 29. Upcoming are works by artist Bruce Lamb and photographer Margaret Raycroft Jan. 31 to Feb. 12, collages by Doria Whitlock and watercolors by Margaret Craig Feb. 14 to 26, and photos and etchings by U of G student Julianna Murphy Feb. 28 to March 12.

Novelist to read

Canadian writer David Adam Richards, author of nine novels and winner of the Canada-Australia Writers' Prize, will read from his works Feb. 3 at 8:30 p.m. at the Bookshelf Cafe.

French exchanges

The French Ministry of Foreign Affairs offers a variety of scientific exchanges between France and Canada. To receive a booklet outlining the programs, write to Service Scientifique, Consulat General de France, 175 Bloor St. W., Suite 606, Toronto M4W 3R8, telephone 416-925-0025, fax 416-925-2560.

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Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham in University Communications on Level 4 of the University Centre. For more information, call Ext. 6581.

FOR RENT

Room available in shared townhouse, non-smoker, laundry, dishwasher, fireplace, College and Janefield area, \$325 a month plus one-third of utilities, 767-6606 evenings.

Three-bedroom waterfront cottage for July and/or August, Bruce Peninsula, deck, fireplace, small boat, \$2,000 a month or \$3,000 for two months, Ext. 6002 or 767-0074 after 8 p.m.

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Administrative Secretary, Guelph Turfgrass Institute. Salary range: \$13.81 minimum, \$17.26 job rate, \$20.72 maximum.

Student Services Manager, Independent Study, contractually limited for one year. Salary range: \$26,196 minimum, \$30,780 normal hiring limit, \$32,745 mid-point.

It is University policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Human Resources Client Services on Level 5 of the University Centre or call 836-4900.

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Wooden high chair, 658-9938 after 6 p.m.

Crib, 1-416-527-5424.

Going to Costa Rica? I'll provide information about travelling in exchange for help getting some items to my family. Ext. 2478 or 821-8953.

Person to share house in established residential area, furnished bedroom with access to all other facilities, including computer and fax, available until late May, Ext. 2478 or 821-8953.

Childcare for two school-aged children, before and after school, Central School area, Linda, Ext. 3496 or 836-9786 after 6 p.m.

CALENDAR

THURSDAY, JAN. 27

Library Orientation - Learn to use the journal abstracts at 9:10 a.m., the business databases at 11:10 a.m. and the psychology databases at 2:10 p.m. Sign-up required.

Concert - The Department of Music presents a noon-hour concert featuring the trio Musical Montage on violin, clarinet and piano in MacKinnon 107. Admission is free.

Macdonald Stewart Art Centre - An opening reception for an exhibition of selections from the Department of Fine Art's print study collection runs from 8 to 10 p.m. At 7 p.m., Sue Daugherty gives a gallery talk on the show.

FRIDAY, JAN. 28

OVC Lecture - Frederic Frye of the University of California, author of *Reptile Care: An Atlas of Diseases and Treatments*, will discuss "Clinical Methods for Handling Amphibian and Reptilian Patients" at 12:10 p.m. in Lifetime Learning Centre 1714.

Library Orientation - Catalogue instruction begins at 2:10 p.m. Learn to use the Canadian information databases at 9:10 a.m. and the agriculture databases at 11:10 a.m. Sign-up required.

Nutritional Sciences Seminar - Randal Buddington of Mississippi State University talks about "Nutrition and Ontogenetic Development of the Intestine" at 11:10 a.m. in Animal Science/Nutrition 141.

Molecular Biology and Genetics Seminar - "Revolutionary Research Approaches in Mammalian Genetics Using ES Cells" is the topic of Andrew Reaume at 11:10 a.m. in Axelrod 028.

SUNDAY, JAN. 30

Arboretum - Take a closer look at snow crystals and their intricate patterns on a walk that leaves from the nature centre at 2 p.m.

WORSHIP

A service will be held in the chapel in UC 533 Jan. 27 at 12:10 p.m. to mark the Week of Prayer for Christian Unity.

Catholic mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek - A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

The Lutheran Lunch Bunch of the Lutheran Students' Movement meets Thursdays at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533.

"To Act or Not to Act: That Is the Question" is the topic of Bob Kennedy Jan. 30 at 10:30 a.m. at the Guelph Unitarian Fellowship on Harris Street. □

MONDAY, JAN. 31

Library Orientation - Learn to use the journal abstracts at 2:10 p.m., the business databases at 9:10 a.m. and the psychology databases at 11:10 a.m. Sign-up required.

TUESDAY, FEB. 1

CPR-athon - The First-Aid Response Team hopes to do six hours of non-stop CPR on a mannequin in the University Centre to raise funds for first-aid supplies and equipment. For more information, call Scott Ruddle at Ext. 8488.

Library Orientation - Learn to use the biomedical sciences databases at 1:10 p.m. and the sociology databases at 3:10 p.m. Sign-up required.

Physics Seminar - Jack Wilson is the guest speaker at 4 p.m. in MacNaughton 113.

Senate - A special meeting to discuss the external review of the Sulawesi project begins at 5 p.m. in Chemistry/Microbiology 200.

WEDNESDAY, FEB. 2

Third Age Learning - This lecture series for retired people continues at 10 a.m. with retired English professor John Bligh on "Linguistic Philosophy at Cambridge" and at 1:30 p.m. with Prof. François Paré, French Studies, discussing "Francophones Outside of Quebec." Lectures are at the Arboretum Centre. Cost of each series is \$16.

Library Orientation - Learn to use the journal abstracts at 10:10 a.m. and the catalogue system at 3:10 p.m. Sign-up required.

Biochemistry Seminar - "MgATP-dependent Transport of Thiolate Peptide Across the Tonoplast of Oat Roots" is the topic of Prof. Wilf Rauser, Botany, at 12:10 p.m. in MacNaughton 222.

Sigma Xi Lecture - Prof. Derek Bewley, Botany, discusses "The Drying Game" at 4:10 p.m. in Axelrod 100. The Sigma Xi awards banquet will follow at the Victoria Park Golf Club. Banquet tickets are \$25 general, \$15 for grad students. For tickets, call Prof. Stan Blecher, Ext. 3424.

THURSDAY, FEB. 3

Concert - The Department of Music presents a free noon-hour concert with Brian Epperson and Leslie Kinton on cello and piano in MacKinnon 107.

FRIDAY, FEB. 4

Nutritional Sciences Seminar - Dr. Richard Rose of the Chicago Medical School discusses "Vitamin C Transport and Metabolism in Antioxidant Function" at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Graduate student Dawn Kelk looks at "Developmental Aspects of Sheep X Goat Interspecific Hybrid Embryos" at noon in OVC 1642.

Exhibition - A show of paintings by Judith Elsasser opens at the Faculty Club from 5 to 8 p.m. The show continues until March 4 and can be viewed Monday to Friday from 9 a.m. to 6:30 p.m.

Arboretum - Head out on "A Night Stalker's Owl Prowl" and explore the behavior and adaptations of owls. The walk leaves from the nature centre at 7 p.m. Cost is \$9 for adults, \$4.50 for children. Register at Ext. 4110.

SATURDAY, FEB. 5

Arboretum - "A Night Stalker's Owl Prowl" leaves from the nature centre at 7 p.m. Cost is \$9 for adults, \$4.50 for children. Register at Ext. 4110.

Theatre in the Trees - It's opening night for the Arboretum's latest dinner-theatre production - Neil Simon's *Barefoot in the Park*. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Tickets are \$39 plus GST. Call Ext. 4368.

SUNDAY, FEB. 6

Arboretum - Come to the Gosling Wildlife Gardens to find out which birds are visiting the feeders and what they're eating. The walk leaves from the nature centre at 2 p.m.

TUESDAY, FEB. 8

Student Involvement and Leadership Series - "Marketing, Membership and Money" is the topic from 5:10 to 7 p.m. in the Eccles Centre.

WEDNESDAY, FEB. 9

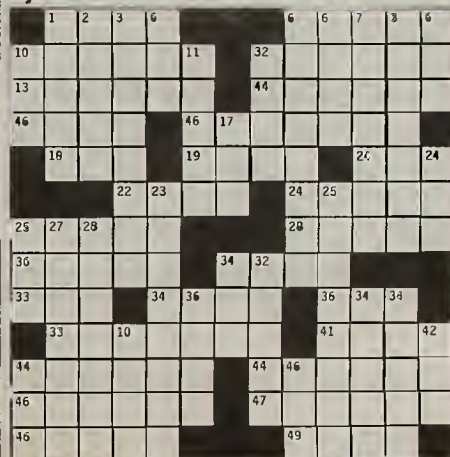
Third Age Learning - This lecture series for retired people continues with the "Continental Existentialism of Kierkegaard, Sartre and Marcel" discussed by retired English professor John Bligh at 10 a.m. and "The Rebellions of 1937" with Prof. Terry Crowley, History, at 1:30 p.m. Lectures are at the Arboretum Centre. Cost of each series is \$16.



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ACROSS

1. Grandstand players
5. Fermented drinks
10. Capable
12. Ontario city
13. Pain in the side
14. Entwine
15. Land measure
16. Dangerfield gets none
18. Possessive pronoun
19. Poetic preposition
20. Have: Scot.
22. Nominate for office
24. Desires
26. Fundamental
29. Dueling swords
30. Spacious
31. French railroad station
33. Soul: Fr.
34. Grows pale
36. Q-U connection
39. Laius's son
41. Fatigue
43. Salad plant
44. Escape
46. Daughters of sisters
47. Tranquil
48. Call one's bluff
49. Pop quiz

DOWN

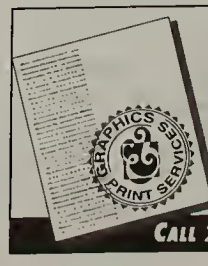
1. Rabbit pen
2. Burning
3. Motherly
4. Urge to attack
5. Men of military age
6. — Stanley Gardner
7. Girl turned into a spider
8. Give orders
9. Comprehend
10. King of Judah
11. Warp thread ends
12. Excelling all others
17. Compass point
21. Curlicue
23. Herringlike fish
25. Camera opening
26. Sheep's bleat
27. Spirits of hartshorn
28. Fast driver
31. Wildest
32. Gregarious mammals
35. Copies
37. Hexagons have six
38. Ontario river
40. Cut into cubes
42. Nigerian city
43. Discontinue
45. Permit

For crossword solution, see page 8

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AT GUELPH

Volume 38 No. 4 Established in 1956

University of Guelph, Guelph, Ontario February 2, 1994

FIRST GLANCE



Gopher it!

Thanks to January's frigid temperatures, it wasn't easy to find a groundhog willing to come out of its cosy underground home to talk to *At Guelph* about its big day in the sun. "Buzz off!" was the typical response.

But we persevered and finally found one publicity-hungry rodent willing to give us an exclusive interview. His only conditions were that we had to give him the movie rights to the interview and guarantee his 48 offspring a place at U of G. Oh, and if we used a photo, we had to air-brush the mole on his right cheek. (The mole is a visiting cousin from Newark.)

Contract in hand, we asked the question on everyone's lips: "Will there be six more weeks of winter?" "Nah!" was the shocking reply. "In fact, it's going to end next Tuesday. There's a warm front moving in from Sudbury, and we should see temperatures as high as 2 or 3 C."

So there it is. You heard it here first. Come next Tuesday, it's off with the woollies and into the shorts. Eat your heart out, B.C.

Inside:

Waste not wanted . . . 3

600 to graduate . . . 3

GATT: Where do we go from here? . . . 4 & 5

Thought for the week

Work is what you do so that some time you won't have to do it any more.

Alfred Polgar



The art of winter

Cold, cold temperatures are just one of Mother Nature's ways of showing off her flair for the artistic. Here, in a place called *Ice on Blackwood Hall Eavestrough*, she shows a dramatic use of light, shadow and contour reminiscent of the early works by Jack Frost.

Photo by Maurice Oishi, University Communications

Rooke takes up new post as associate VP

Prof. Constance Rooke, chair of the Department of English, assumed the position of associate vice-president, academic, Feb. 1. The appointment was announced Jan. 25 by President Mordechai Rozanski.

Rooke came to Guelph in 1988 from the University of Victoria, where she taught English and was chair of women's studies. She holds a BA from Smith College, an MA from Tulane University and a PhD from the University of North Carolina.

A respected scholar of contemporary Canadian writing, as well as feminist and gerontological approaches to literature, Rooke has published widely, including books, articles, reviews and fiction. A popular invited speaker and an experienced editor, she recently stepped down as editor of the award-winning *The Malahot Review*.

Rooke holds a 3-M Fellowship for excellence in teaching and has won recognition for her innovative approaches to teaching and curriculum development. This includes development of *The Electronic Composition Workbook*, a computer program for undergraduate students.

Her service contributions at the



Prof. Constance Rooke

University of Victoria and Guelph cover a wide area, including employment equity, teaching evaluation, discipline review, graduate education, and hiring, tenure and promotion. She has also served as a sexual harassment mediator.

Externally, Rooke has been president of the Canadian Association of Chairs of English, on the executive of the Canadian Federation of Humanities, a member of the Canada Council's advisory committee on writing and publication, and a member of the board of directors of the Canadian

See *BETTER* on page 2

Events to celebrate international development

U of G will celebrate the fourth annual International Development Week in Canada Feb. 6 to 12 with a number of special events. Sunera Thobani, president of the National Action Committee for Women, will speak Feb. 9 at noon in Peter Clark Hall.

The theme of the week is "Together We Can Change Our World," reflecting a desire to work together to find sustainable solutions to global problems.

On Feb. 4, an arts night on the theme "Exchanging Perspectives in Development" is planned. The evening will feature a variety of music, art, theatre and poetry. It begins at 7:30 p.m. in lower Massey Hall.

A Working in Development conference called "Exchanging Perspectives" runs Feb. 5 at Harcourt United Church. The conference will feature eight workshops, including a discussion of housing issues in Canada with representatives from the Roomers and Boarders Committee in Hamilton and a session on fair

and alternative trade with a representative from Bridgehead. Bill Hulet will discuss how to be an activist.

On Feb. 7, a "Trucks to Nicaragua" fund raiser will feature displays and exhibits from 10 a.m. to 3:30 p.m. in the University Centre courtyard. From 6 to 8 p.m., International House will stage "World on a Plate," offering a variety of international foods prepared by students.

On Feb. 8, an "Our World" lecture begins at noon in Room 441 of the University Centre. A skills-training program on identifying racial and sexual bias in written and spoken communication runs from 5:30 to 7:30 p.m. in UC 334. The film *Kahnesetoke* will play at 8 p.m. in Room 200 of the Axelrod Building.

On Feb. 9 at noon in the UC courtyard, there will be a musical presentation. At 3 p.m., Nancy Lee talks about the Summer Centre for International Languages in Regina in UC 442. At 6 p.m., CFRU-FM will present a Latin

American show.

On Feb. 11 from 2 to 4 p.m., a non-governmental organizations fair organized by local community groups will be held at the YW-YMCA on Speedvale Avenue East.

U of G has a long history of international development education. Since 1970, the University has administered 70 projects valued at \$66 million in about 30 developing countries. Financial support has come largely from the Canadian International Development Agency.

Guelph has links with more than 35 universities and research institutions around the world and more than 300 faculty with overseas experience.

International Education Services provides opportunities for students to study and work overseas. It has a database listing 1,400 study programs and 1,200 work opportunities abroad as well as information on exchanges and scholarship programs. □

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Farcus

by David Weissberg
Gordon Coulman

"Gee, things are getting tight around here."

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Wellington
Motors Ltd.
in the Guelph Auto Mall
822-8950Job fair
attracts 70
companies

Shopping for a summer job or a career? Plan on attending Partnerships for Employment '94, a job fair at Bingemans Conference Centre in Kitchener Feb. 15.

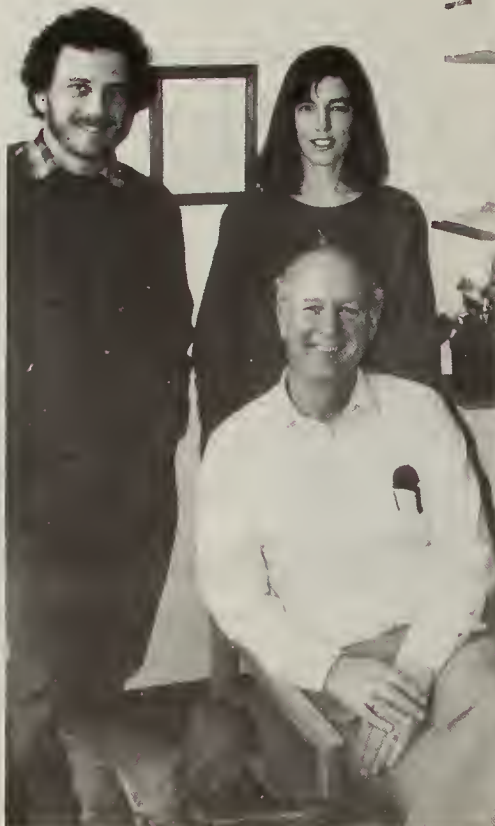
The job fair is a joint effort of U of G, Conestoga College, the University of Waterloo and Wilfrid Laurier University. It's expected to draw more than 70 companies offering summer, contract or permanent jobs, says Lloyd Ross of Career Services. The summer job fair, which it replaces, typically attracts 35.

The fair is an important first step towards employment and a good opportunity to make a positive first impression, says Ross. A circular that was sent to every department and is now posted in a University Centre display case spells out how to make the best of the event, he says.

The Central Student Association (CSA) is sponsoring buses to the job fair, which runs from 10 a.m. to 4 p.m. To book a seat, visit the CSA office on Level 2 of the University Centre or sign up at the desk in the UC courtyard the day before the fair. Return fare is \$1.00.

Crossword answers

| | |
|----------|----------|
| TROY | LEONE |
| HAILED | SYDNEY |
| ARGYLE | TENURE |
| STAMPEDE | ASOR |
| PS | TIRE |
| BALL | ROCKIES |
| EDICTS | LOUNGE |
| GOSSIPS | TOGA |
| HO | BC |
| CLATS | TOMAHAWK |
| ABRUPT | ALICIA |
| BLURRY | KENNEL |
| SEEDY | ESSEN |



Ministering to the spiritual needs of the University community are, from left, Phil Nazar, Lucy Reid and Ed Den Haan.

Photo by Maurice Oishi, University Communications

Campus ministers
join forces to create
multifaith chaplaincyby Lucy Reid
Campus Ministry

There's a new look to the chaplaincy at U of G.

Last summer, Roman Catholic campus minister Martin Royackers left to take up ministry in Toronto, and ecumenical chaplain David Howells joined the Anglican church in Rockwood.

To take their place, Phil Nazar has joined the team as the new Jesuit appointment, and Lucy Reid has expanded from part-time to full-time ecumenical minister. Ed Den Haan, now in his 16th year as Christian Reformed minister on campus, remains the single constant.

Another change has been the development of the interfaith dimension of the campus minis-

try. Before now, it was always Christian, with various denominations represented, and a loose liaison with other faith groups. The goal now is a multifaith chaplaincy, with enhanced co-operation and shared undertakings whenever possible.

To that end, a day of interfaith celebration is planned for Feb. 21, and a new religious resource centre is being created with material from many faiths.

Activities continuing this year are a meditation group, a range of worship services, study groups addressing issues such as feminist spirituality and pastoral and grief counselling.

Nazar, Reid and Den Haan can be reached at Ext. 8909. Phone numbers for contacts from other faiths can also be obtained at this number. □

PUBLICATIONS

Prof. Gerald Adams, Family Studies, is co-editor with R.I. Hampton, T.P. Gullota, E.H. Potter and R.P. Weissberg of *Family Violence: Prevention and Treatment Issues in Children's and Families' Lives*, Vol. 1. Adams is also co-author with M. Summers and V.A. Christopher of "Age and Gender Differences in Preschool Children's Identification of the Emotions of Others: A Brief Report," which appeared in the *Canadian Journal of Behavioral Science* 25.

An article by Prof. Gerry Manning, English, on "Loss and

Renewal in Old Age: Some Literary Models" appears in *Canadian Journal on Aging*.

Prof. Judy Sheeska, Family Studies, was guest editor for a special issue of the *Journal of the Canadian Dietetic Association* 54. The same issue contained an article by Profs. Rosalind Gibson and Nina Mercer, Family Studies, Carolyn MacDonald, Pat Smit-Vanderkooy and Christine McLennan on "Dietary Fat Patterns of Some Canadian Preschool Children in Relation to Indices of Growth, Iron, Zinc and Dietary Status." □

Better timetable system
a first priority for VP

Continued from page 1

Centre for PEN International. She is currently U of G's academic colleague on the Council of Ontario Universities (COU).

Rooke says she's delighted with her new post, "although I am more than a little sad to be leaving the Department of English and the people I have worked with there."

But these are hard times for universities, she says, and there is much to be done if Guelph is to continue on an ascending path. She wants to help with that and hopes to serve as "a kind of champion" for excellence and innovation in Guelph's undergraduate curriculum, building on the work of her predecessors, Prof. Leonard Conolly and Prof. Tammy Bray, Nutritional Sciences.

"I know I have a lot to learn, but I look forward to working closely with the many faculty, staff and students who care deeply about the quality of learning that goes on here and about the responsibility we share to effect change in the world," says Rooke.

She stresses the need for a campus-wide climate of collaboration, co-operation and community to face the future. "Only if we come together will we manage to flourish."

Among her first priorities is developing a better timetable system for undergraduate courses. She says she's also keen to move ahead in the area of educational technology.

Because of her new position, it's expected that Rooke will no longer serve as co-chair of the Strategic-Planning Commission, although she will remain a member. Selection of her successor will begin after consultation with

the commission, Rozanski says.

In the Department of English, Prof. Gerald Manning will serve as acting chair until a successor to Rooke is found, says Prof. Iain Campbell, acting academic vice-president.

In announcing Rooke's appointment last week, Rozanski lauded the work of the selection committee. "Their decision was based on their best understanding of the needs of the University as we go forward into the latter part of the decade," he said.

The president also paid tribute to Bray for her work as acting associate VP, academic. "Her contribution to the University has earned her the respect and affection of her colleagues and has advanced the University in a period of significant change," he said.

Bray says she is looking forward to going back to the Department of Nutritional Sciences, where she will concentrate on teaching and research.

Reporting to the academic vice-president, the associate VP is responsible for the content and administration of all undergraduate programs. Other responsibilities include undergraduate liaison and enrolment, the spring semester, distance education, co-operation with community colleges and liaison with COU, the Ontario Council on University Affairs and the Ministry of Education and Training.

Reporting to the associate VP are the registrar and the directors of Teaching Support Services, Distance Education and General Studies. □

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Please Recycle

Cinching in at the waste

Pilot project takes aim at garbage

by Maurice Oishi
University Communications

In the Hersey Building, 37 people share two garbage cans. But every desk has a fine-paper recycling bin, and the building has four blue boxes and its own composting bin. Welcome to U of G's test project on zero waste production.

The concept came as a shock to the building's occupants, says Laura Rourke, campus waste-management co-ordinator. "It's a pretty big change for an office," she says. "But then there was a general consensus that something had to be done."

It's been both a change of habit and of haunt. The J.C. Hersey Building, across Powerhouse Lane from Alumni Stadium, is the new home of the Physical Resources administration.

The group was formerly housed in the Trent and Physical Resources buildings. Synchronizing the move with the zero-waste concept seemed like auspicious timing, says Rourke.

Surveyed the contents

Before the move into Hersey, Housekeeping collected waste from the old offices for three days. Rourke waded through the 11 large bags collected and surveyed the contents.

What she found was surprising. Paper towels made up 22 per cent (by mass) of the total waste leaving the offices. That was second only to food waste — potential compost fodder — which made up 27 per cent.

In addition, materials that could be recycled were still slipping into the garbage cans, making up a further quarter of the waste. In fact, garbage bags alone filled up one large garbage bag.

Simple changes could divert roughly three-quarters of the material from the landfill, Rourke says. Replacing paper towels with electric dryers and setting up a composter were obvious remedies. As for the recyclables, removing garbage cans



Laura Rourke displays one of only two wastebaskets used inside the Hersey Building.

Photo by Maurice Oishi, University Communications

from desks was one way to make people aware of what goes where.

Other changes included putting a stock of reusable mugs in the coffee area to replace styrofoam cups. Cartons of milk replaced creamers.

"First there were a lot of moans and groans," says Frances Reilly, environmental co-ordinator for the building. "Then there were a lot of questions. Now we don't even think about where to put what. Between watchdogs and having containers, it's worked out really great."

Still, the program hasn't won over everyone. Marcus Perry, a mechanical designer, says he agrees with the initiative to move towards zero waste production, but not with the way the move was implemented.

"It was very heavy-handed," he says. "We

weren't consulted. And I don't see it was very cost effective. When you have highly paid people in this building walking across the building to a garbage can every time they blow their nose, you have to wonder if it's worth it."

The project has proven effective. What gets sent to the landfill has been reduced from an estimated 20 bags a week to two. Rourke predicted that using electric dryers, composters and recycling bins alone would save the University \$140 in landfill tipping fees every year.

With the removal of the garbage cans, custodial staff agreed to collect the recycling bins and food-waste containers, says Ken Steer, head of Housekeeping. The biggest contributor to the garbage stream is food packaging, blue prints and carbon paper.

The effort now is to try to cut back on the packaging, by convincing people to turn to reusable containers for their lunches. And increasing the office's use of e-mail, in place of memos, reduces both carbon and fine paper use.

In fact, Housekeeping supervisors housed in the old Grounds Building have started their own waste-reduction program by replacing their desk-side garbage cans with recycling bins.

Rourke hopes to recruit another unit on campus as a second step in the zero-waste program. She's especially interested in the MacKinnon Building, where the configuration of the building and the predominance of self-contained faculty offices offer a particular challenge.

"If it works there, it'll work anywhere," she says. □

600 to graduate, three to receive honorary degrees

More than 600 students will graduate at four convocation ceremonies Feb. 4 and 5 in War Memorial Hall.

At the 10 a.m. ceremony Feb. 4 for graduates of the College of Social Science, University of Toronto sociologist Raymond Breton will receive an honorary doctor of laws degree and give the convocation address.

Retired professor Eleanora Cebotarev, Sociology and Anthropology, will be named professor emerita.

At the 2:30 p.m. ceremony for graduates of FACS, OVC and OAC, retired pathologist and former OVC professor Reg Thomson will receive an honorary doctorate of science. Ken Murray, interim director of University Affairs and Development, will give the convocation address.

At the 7:30 p.m. ceremony,

College of Arts graduates will be addressed by Prof. François Paré, French Studies.

At the 10 a.m. ceremony Feb. 5, an honorary doctorate of science will go to engineer Tom Brzustowski, Ontario's deputy minister in charge of the Premier's Council on Economic Renewal and a former provost at the University of Waterloo.

Brzustowski will give the convocation address to students graduating from the College of Biological Science and the College of Physical and Engineering Science. □



Calendar has new look at lower cost

The Graduate Calendar has had a facelift. The recently issued 1994-96 calendar has adopted a larger format and now spans two years.

Roughly twice the size of the old calendar, it's also less expensive to print, says Jocelyn Ollerhead, graduate studies liaison officer. This, plus the fact that it will be updated and published less frequently, means lower costs.

The calendar has updated program descriptions, making it easier for graduate students to see what's offered and what's required, says Ollerhead. New additions to the calendar also make it a more comprehensive document. These include U of G's learning objectives, student rights and responsibilities, the sexual and gender harassment policy and a

redesigned map.

The two-year format means that graduate students must turn to the University's on-line information system, GRIFF, to find out about scholarships. The system will ensure up-to-date information about the hows and whens of funding applications.

The calendar is available from the Office of Graduate Studies. □

Talks give insider's view of job market

Corporate culture may be daunting for graduates, but a student-organized colloquium will try to put it into context Feb. 16.

Don Marshall, a commerce student and one of the organizers of "Trends in Developments in Canadian Business," says the media picture of the job market is bleak, but he hopes the colloquium will offer a different point of view.

To get an insider's perspective on how to survive and succeed in the workplace, the organizers have asked five corporate executives, including three members of U of G's Board of Governors, to speak at the colloquium. They are Bill Brock, vice-chair of the TD Bank; Peter Edwards, an industrial relations specialist with John Labatt Ltd.; Larry Pearson, president of Linamar Corp.; Maureen Sabia, chair of

Export Development Corp.; and David Weinberg, president of CIBC Development Corp.

Edwards says the impression of a rapidly changing marketplace misses the mark. "The corporate world has always evolved rapidly," he says. "We have a recession; our parents or grandparents had the Depression. The real question is how do we adapt and make the most of the opportunities."

The colloquium speakers will give a brief summary of their view of the workplace. After the talks, Prof. Glenn Marshall, H.A.F.A., will moderate a question period. A concluding reception will give students a chance to meet the speakers. The colloquium begins at 7 p.m. in Room 105 of the MacNaughton Building. It's sponsored by the Business Studies Council. □

After the GATT accord: Canada must

What's in it?

by Larry Martin and
Vincent Amanor-Boadu

Well, GATT happened. The national media feasted on it briefly, then flitted on to the next crisis of the moment. So we can focus on what the General Agreement on Tariffs and Trade has in it for agri-food and what the implications might be.

Much of what's in GATT is unchanged from negotiations chair Arthur Dunkel's 1992 proposal, so we will focus on what's new and different. We'll look at market access, domestic support, technical regulations and dispute settlement.

Because of the fast-track legislation in the United States, the final text of the agreement must be ready for ratification and transformation into domestic legislation by April 15, 1994. GATT provisions go into effect July 1, 1995.

During the next few weeks, negotiators will be translating what's been agreed to into legal language. They'll also be involved in additional bilateral negotiations and completing work on tariffication. The process for changing import quotas and other non-tariff barriers into tariffs is mainly a technical matter. Each country will soon table its proposed tariffs based on an already agreed-to methodology.

The process between now and approximately Feb. 15 will mainly be about whether the right methodology was followed in calculating tariff levels. Countries will listen to each other's objections, but will pretty much have the final say in what their own tariff levels will be.



Market access

Market access is what we heard the most about during the final days of negotiation. Canada's import quotas for dairy and poultry products; the Canadian and U.S. meat import acts; U.S. import quotas for dairy products, sugar and peanuts; European Union variable import levies on a range of products; and Japanese or Korean import restrictions for a wide range of commodities — all will be turned into tariffs.

These tariffs are to be based on the difference between local prices and "world market prices" during a base period — the late 1980s. When the tariffs become operable, they will be levied against the landed value of a product in the importing country. So if butter costs \$2 a pound at the Canadian border and the tariff is 350 per cent, the tariff will be \$7 a pound. Canadian butter will then have to be priced at \$9 a pound or less to be price competitive in the domestic market.

The proposed Canadian tariffs are public. And they are huge. The smallest for the supply-managed commodities we have seen is 182 per cent for turkey. They range up to 350 per cent or more from there. They will come down by the minimum 15 per cent over the six-year phase-in period. From then on, new negotiations will determine whether they go down further and, if so, by how much.

The initial tariff for Canada's meat import act will be somewhere around 35 per cent and will come down by 15 per cent over six years. These tariffs apply to beef from Australia, New Zealand and Nicaragua.

The United States has not revealed its proposed tariff levels and may not do so until mid-February, but sources have provided ball-park estimates. Tariff levels for dairy products appear to be about 100 per cent, perhaps going as high as 138 per cent for butter. There's talk of tariff rates of more than 100 per cent for sugar and, presumably, products containing sugar. The tariff on peanut butter is pegged at 70 to 100 per cent. We assume these initial levels will be reduced by 15 per cent.

Outside North America, the only information we have is that the European Union will probably propose tariffs around 55 per cent of its intervention price for grains to replace variable import levies. The Europeans apparently believe this will give the rest of the world complete access during some forecast periods in the future.

Another aspect of market access is minimum access for products for which there have essentially been no imports. Dunkel's proposal called for minimum access of three per cent of domestic consumption, increasing to five per cent over the six-year phase-in. These are "tariff rate quotas."

What this means is that imports of up to three per cent of domestic consumption can enter with no or very low tariffs. Canada, for example, would allow three per cent of its domestic consumption of butter at a very low tariff, but above three per cent, the tariff would be 350 per cent.

There is still some question as to whether the three-per-cent figure will be met by all countries. Most countries are apparently offering three per cent for most products, but some technical arguments need to be made. This can still change.

Domestic support

The domestic support provisions of GATT are similar to what Dunkel proposed, but with some important exceptions. Domestic support programs for farmers will be categorized as green or amber. Amber programs must have their subsidy level reduced to 80 per cent of the average between 1986 and 1988 during the phase-in period.

Apparently, no Canadian safety-net program will qualify as green. This means crop insurance, the Gross Revenue Insurance Pro-

gram, the Net Income Stabilization Account (NISA) and tripartite are all amber. Crop insurance could be green if support were put at 70 per cent of the previous five-year average. NISA could be green if all sources of farm income were included and support were at 70 per cent.

Two things have been added. First, "green" subsidies will not be countervailable for at least nine years after GATT comes into force. Second, a blue category has been added. Blue subsidies are essentially the U.S. and European Union income-support programs, with payments based on fixed-base farm yields and crop acreages. Blue subsidies do not have to be reduced.

Export subsidy provisions

These provisions are almost as Dunkel proposed in 1992. The only change is that, because of the U.S.-European Union sub-agreement, export subsidies can start at the higher of a country's average export subsidies from 1986 to 1990 or in 1991/92. But they must decline during the phase-in to a maximum of 79 per cent by volume and 64 per cent by monetary amount of the 1986 to 1990 averages.

That means export subsidies can start higher than Dunkel proposed (which they will for the European Community and probably the United States), but they must come down to the same level he suggested. These subsidies include the U.S. Export Enhancement Program, the European export restitution program and Canadian grain transportation subsidies for products moving through West Coast and Great Lakes ports.

Technical regulations

This aspect of GATT is as agreed to at Montreal in 1991. The agreement is to harmonize where possible and to not use technical regulations as non-tariff barriers. This will have long-term implications for most countries.

Dispute settlement

There are now clearer definitions of subsidies that can or cannot be countervailed. GATT panel decisions about disputes will be binding for all members. Panels will be organized through a permanent World Trade Organization (WTO), which will act as the international trade court.

The WTO should bring much more order to the negotiation process. In the past, GATT rounds started when countries decided to start them. We expect negotiations will now be ongoing and done in a more scheduled fashion.

The weakness in dispute settlement involves anti-dumping cases. The Americans managed to convince other members of GATT to adopt their rather non-rigorous and protectionist definitions of dumping. We expect this to be an area of some conflict in the future.



What does it mean for the agri

Several short- and long-term implications of GATT can now be identified.

GATT/NAFTA interface and tariff reductions

Two issues have been identified by the press and others. First, because the North American Free Trade Agreement forbids the three parties to impose new tariffs against each other, can the new ones from GATT be imposed? The answer is yes. Paragraph 309 of NAFTA clearly anticipates this situation by referring to "successor agreements" to Article 11 exceptions that would be allowed.

The second issue is more complex. The U.S. secretary has been quoted as saying he wants to see the end of all Canadian tariffs by 1998. The year is apparently in reference to the five-year phase-out period for some tariffs in NAFTA.

Can the United States somehow force Canada to completely remove tariffs on supply-managed products under NAFTA? There is probably no basis in law for the States to do so. Because NAFTA was signed before GATT and both parties signed both agreements, GATT supersedes NAFTA (except where there were specific provisions). Nothing in NAFTA commits the parties to reducing tariffs that did not exist when it was signed.

Even if there were a legal way for the Americans to make the issue a dispute in NAFTA, it would cause them problems. If they want us to phase out our tariffs, they would have to phase out theirs for us and Mexico.

U.S. domestic sugar prices are usually about 24 cents a pound compared with world sugar prices of 12 to 15 cents. We buy sugar at world prices. Mexico raises sugar. The U.S. sugar tariff will likely be 120 per cent. U.S. sugar producers and end users have powerful allies in Congress. You figure it out.

Finally, even if they were willing to sacrifice their tariffs to get rid of ours, some of the NAFTA

phaseout is over five years, some over 10 and some over 15. If there were a dispute between the two countries, the States would have to take it to a NAFTA Chapter 18 panel, get a favorable decision, then negotiate with Canada over the phase-out period.

The worst-case scenario is that Canadian tariffs on poultry and dairy products would not be phased out until 2005 or 2010. The more likely scenario is that they will drop by 15 per cent over six years from the levels proposed at GATT, then be subject to subsequent negotiations conducted by the WTO.

We suggest, however, that the likelihood of a dispute and bad relations with the United States could be reduced if Canada (and therefore Canadian producer groups) is sensitive to the concerns expressed at GATT in the next few weeks.

Our proposed tariffs are nearly three times as high as those of the United States. They are higher than are needed to replace the protection of import quotas. There will be opportunities to do bilateral deals over the next few weeks. Although some argue that Canada should set tariffs as high as possible, an alternative is to set them at reasonable levels now and make a bilateral deal to keep them for the next couple of decades.

(Flip Wilson once said: "The less you bet, the more you lose when you win." But the reverse is also true!)

Something else to consider is the effect that tariffs from 180 to 350 per cent will have on urban opinions. Apparently one prominent newspaper has already written an editorial condemning them as consumer taxes. Their very transparency will be a constant point of tension between marketing agencies and consumers. The agencies should think carefully about the strategic implications of insisting on these extremely high tariffs for both their domestic customers and their long-term trade policy options.

In addition, they will need to

ENTARY

take risks to wake the sleeping giant



Agri-food sector?

think about whether to take advantage of the tariffs if they are extremely high. Domestic prices near the levels afforded by these tariffs will mean the ruin of some customers, will have spill-over effects on the non-supply-managed commodities because of the implications for ingredient costs, and will invite a huge amount of negative press.

Federal-provincial link

At present, national marketing boards determine global production quotas, and provincial marketing boards determine prices. This is consistent with the constitutional separation of powers.

With tariffication, imported product will enter Canada where economic forces dictate. This could put considerable pressure on both the quantity and price-control functions. Imported product could undermine the local price and cause local surpluses of domestic product. It may mean that new ways of sharing responsibility will need to be found.

An early indication of the problem may be the current issue of increased chicken production in Ontario and Quebec.

The green/amber issue

One of the ways that government is becoming more cost effective is through cost recovery or "beneficiary pays" programs. Under this concept, government recovers the cost of services from those in the private sector who benefit from them.

The problem is that some of the very services that government is considering for cost recovery (such as grading) are green under GATT. But many of the programs the agricultural sector has received direct benefits from are amber, and there is no clear decision that these programs will be eliminated.

This means several major issues and tradeoffs have not been addressed strategically and systematically. The new federal government has not said much about whether it intends to pursue

regulatory reform (and we hope it does). If it does, then this issue must be a central part of the considerations.

Import rights

One interesting aspect of GATT is that the minimum-access provisions will create a new breed of import quotas. If a product such as butter is subject to minimum access at no or a low tariff, then faces very high tariffs, the person who brings in minimum-access product will probably make a lot of money. As a result, there may be more than academic interest in who gets the rights.

An inquiry into the allocation of existing import quotas for dairy and poultry products by the Canadian International Trade Tribunal concluded that the most efficient and equitable way to allocate valuable import rights is to auction them for a specific term, then re-auction them. On the other hand, some who hold existing import quota (and sometimes paid for it) will probably argue that they should be compensated for their lost assets with minimum-access quota.

Mending the safety nets

The early indication is that expenditures under Canada's stabilization programs have already fallen by the required 20 per cent from the base period. But there is no guarantee that future market conditions won't cause payments to increase under the current programs.

The current ones are amber. So Canada could be in deep trouble down the road if we don't focus on developing the right safety nets. GATT may give some direction. As mentioned above, NISA could be green by including all sources of farm income and providing a lower level of support.

We need to address this question soon. Because we are below the 80-per-cent level, the inclination will be to put this off. Then we'll have to make decisions under the pressure of a countervail case or from increased payouts under one or more of the existing programs. This will probably not lead to wise decisions. We believe the government should put a process in place to redesign safety nets by the middle of this summer.

The sleeping giant

We could go on and on about the specific things that need to be addressed, but we want to close with the most important implication of all.

When the Canada-U.S. (CUSTA) agreement was signed, it was apparent that protection in both countries was highest on products that have the most value added and most absolute value. Consequently, more protection was given up on high-value products than on low-value ones.

The result is that the fastest-growing component of Canada's agri-food exports to the States (which, by the way, have grown more than U.S. exports to Canada) is the consumer-ready or value-added component. Our exports to the rest of the world are dominated by bulk products such as wheat, barley, oilseeds and unrefined edible oil.

Although little systematic analysis has been done on the subject, we gather that the same approach to protection has been taken by most other countries. The most important aspect of GATT may therefore be the systematic reduction of tariffs and other agri-food trade barriers by all countries, especially countries that are not the United States.

The Canadian agri-food sector is poised to take real advantage of the opportunities afforded and to therefore make huge contributions to the national economy, to diversification and to many rural areas through increased employment in processing, further processing and other value-adding activities.

Our belief in the sector is based on several factors. Not least is the one just mentioned — we've shown we can do it with our record to the United States since CUSTA.

In addition, we have one of the most favorable resource-to-population ratios in the world and some of the best market infrastructure. We also have some mammoth markets opening up in Asia and Latin America as a result of GATT. And we've undergone adjustments and restructuring in much of the sector in recent years that leave us leaner, more efficient and more responsive.

In fact, although many have decried the huge adjustments that farmers and processors have had to go through, we believe we've come through the period remarkably well. The ability of those in our sector to adjust so well to what has been the most wrenching non-war period of this century should be a source of pride.

Much of the attention around GATT's completion has focused on the dairy and poultry industries. These are industries whose primary producers prefer to opt out of international competition. In our view, this is not necessary because they have all the basic ingredients to compete with anyone. But they've done it and will be well protected for the foreseeable future.

So now it's time to give attention to industries within the sector that are turned on by the prospect of new opportunities — grains, oilseeds, horticulture, pork and beef. What's needed for them to reach their potential?

First, we need to improve the vertical links in these industries. This involves several components. One is that we need to free up pricing systems so farmers and their processor customers can respond to the demands of various markets.

Markets for food are becoming more segmented. Add to that the new and growing markets of Asia and Latin America and you have to wonder: "Why do we persist in having grading and pricing systems that produce 'one size fits all' commodities?"

We need to let the market decide how many sizes and types of pigs or varieties of wheat should be produced, not the grading and pricing systems that we arbitrarily impose on the markets. Those were OK for the 1960s. They're outdated for the '90s.

Another aspect of the vertical links issue is that farmers and processors need to regard their customers as customers, and processors and retailers need to regard their suppliers as key elements of their strategies for bringing products to market.

Suppliers and customers need to find ways of doing business that cut the costs of conflict and replace them with the savings and synergies that result from collaboration.

We sit in on lots of meetings that have representation from various

aspects of the marketing chain. The lack of trust, goodwill and willingness to collaborate is endemic. If the giant that our sector has the potential to become in the world market is to be awake and is to mature, it will be as a well co-ordinated whole that meets the rest of the world as a united entity.

A final aspect of the vertical links issue is concern about vertical integration. Vertical integration, either through ownership or contracting, has been the preferred way of evolving in some industries in the States and Mexico.

It's much less pronounced in Europe, where other kinds of arrangements have developed that give the efficiency advantages of integration but have additional economic advantages associated with retained sovereignty on the part of farmers.

It's been said that the essence of personal growth is to risk who you think you are today to become what you can be. Our sector in Canada needs to be willing to risk the structures we've become comfortable with to look for new structures that will allow us to give life to the sleeping giant who is awakening.



Besides vertical links, it will soon be paramount to develop the human skills and technology required to capture the markets that will open up to us. We lag behind many countries in technological adoption and training. They will be key elements of future success.

The policy questions that GATT leads us to for both public and private business policy are: How do we most effectively structure our industries to respond to the emerging market opportunities, while retaining the benefits of independently managed operations? How do we provide people with the requisite skills to operate in a more global environment? How do we develop and adapt the appropriate technology for the new market reality? These are questions the sector needs to address now.

Prof. Larry Martin is director of economic research at the George Morris Centre. Vincent Amador-Bodur is research leader.

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NOTICES

UGFA awards

The U of G Faculty Association is calling for nominations for its 1993/94 teaching awards and academic librarianship award. The UGFA awards seven distinguished professor awards, up to two special merit awards and one librarian award. Nomination deadline is Feb. 14.

Be a model

The College Royal Committee is looking for male and female models for its annual fashion show March 19 and 20. Anyone who sews, knits or designs is invited to lend clothing for display. For more information, call Sandra at 836-4926.

Scientific writing

The Learning Resource Centre is offering a six-week non-credit course called "Scientific Writing for Graduate Students." Participants will use their own written scientific material to discuss and practise planning, writing and revising a thesis or scientific article. Classes will run Tuesdays from 4 to 6 p.m. from Feb. 8 to March 29. Cost is \$45. Register at

the Connection Desk on Level 3 of the University Centre. For more information and a course outline, visit the Learning Resource Centre on UC Level 3 or call Ext. 3632.

Show and tell

The seventh annual Instructional Show and Tell sponsored by Teaching Support Services runs May 24 and 25. If you'd like to share your ideas about teaching strategies in either a 10-minute presentation or by poster, call Les Richards at Ext. 3106 or email to leslier@uoguelph.ca. The deadline for abstracts is Feb. 11.

Scholarship available

Guelph Women in Networking offers a \$1,000 scholarship to female students enrolled in non-traditional postsecondary programs. To be eligible, a student must be enrolled full time in a program of study or training of at least 30 weeks' duration. The deadline for applications is March 15. For information or application forms, call Karen Scott at 763-6677.

Call for abstracts

The Sixth Congress of the International Society for Animal Clinical Biochemistry will be held at U of G Aug 2 to 6. This will be followed by an American Society of Veterinary Clinical Pathology avian hematology workshop Aug. 6 and 7. Abstract deadline is Feb. 28; registration deadline is June 1. Registration/abstract packages are available from Conference Services.

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Secretaries meet

The Guelph chapter of the Professional Secretaries Association will meet Feb. 9 at the Cutten Club. Dinner is at 6 p.m. followed by a talk on investments by Joe Carpenter and a business meeting. New members are welcome. Call Barbara at Ext. 4415 or 824-5037 for information.

OCCS names director

Nicole Begin-Helck has been appointed executive director of the Ontario Council on Graduate Studies, effective May 1. She is currently dean of the school of graduate studies and research at the University of Ottawa.

A Turkish night

The Wellington County Museum and Archives launches a new exhibit called "Turkiye: Land of Treasures" Feb. 12 with a reception at 7:30 p.m., a slide presentation at 8 p.m. and dinner at 9 p.m. Archeologist Rezan Peya will give a slide tour of her native Turkey and its ancient culture and civilization. Tickets are \$20 and must be reserved by Feb. 5 at 846-0916.

Challenging racism

The Doris Marshall Institute for Education and Action presents a workshop on "Challenging a Racism in Global Education" Feb. 21 from 9:30 a.m. to 5 p.m. at Friend's House in Toronto. For details, visit International Education Services on Level 4 of the University Centre.

Valentine teas

Guelph Museums will hold Valentine teas Feb. 9 and 16 at 2 p.m. at McCrae House. Cost is \$4 per person. For reservations, call 836-1482.

It's a cabaret

The Guelph Chamber Music Society presents the Guelph Chamber Choir and the Phoenix Jazz Quartet in a Valentine cabaret Feb. 12 at 8 p.m. at the Arboretum. Music will range from baroque to Broadway. Tickets are \$25 and available at the University Centre box office and the Carden Street Music Shop. □

Human Resources offers job fact sheet sessions

To help exempt staff members complete their job fact sheets, Human Resources will offer training sessions in February and March. The two-hour sessions will be held in the University Centre and are scheduled as follows:

- Feb. 10, 1:15 p.m., Room 441;
- Feb. 15, 9 a.m., Room 442;
- Feb. 18, 9 a.m., Room 441;

- Feb. 23, 1:15 p.m., Room 441;
- March 4, 9 a.m., Room 441;
- March 10, 9 a.m., Room 442; and
- March 29, 9 a.m., Room 441.

To register, call Vikki Tremblay at Ext. 6598. If your job fact sheet has not changed since 1989, it should be resubmitted with the appropriate signatures. □

JOBS

As of *At Guelph* deadline Jan. 28, the following opportunity was available:

Annual Fund Assistant - Annual Giving and Support Services, University Affairs and Development. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

The following was available to on-campus employees only:

Secretary, Central Purchasing, secondment or temporary full-time position for approximately one year. Salary range: \$12.60 minimum, \$15.75 job rate, \$18.90 maximum.

It is U of G's policy to give prior consideration to on-campus applicants. To determine the availability of University employ-

ment opportunities, visit Human Resources Client Services on Level 5 of the University Centre or call 836-4900.

GRAD NEWS

The final examination of Gary Parkin, a PhD candidate in the Department of Land Resource Science, is Feb. 4 at 9:10 a.m. in Richards 038. The thesis title is "Application of an Analytical Solution for Constant Rate Rainfall Infiltration." Parkin's adviser is Prof. Dave Elrick. □

CLASSIFIEDS

FOR SALE

Large and extra large dog crates; rawhide products; pet foods; unbeatable prices. Ext. 4309 or drop by front office of Animal-Care Services.

1989 Audi 100, four-door, ABS, fully loaded, 118,000 km, 824-8119.

Estate sale: antiques, fine linens, vacuum cleaner, microwave, silver and other miscellaneous items, 836-1163.

Blue, part-fleece-lined winter horse blanket, size 80, used but in good condition, Julia, 821-7233.

FOR RENT

Room available in shared townhouse, non-smoker, laundry, dishwasher, fireplace, College and Janefield areas, \$325 a month plus one-third of utilities, 767-6606 evenings.

WANTED

Pair of riding breeches, size 30-32, good quality and condition, Julia, 821-7233.

Used IBM-clone computer, XT or 286, hard drive, monochrome monitor, WordPerfect 5.1 or 6; 9- or 24-pin printer, 821-2517.

Jenny Lind baby's change table and dresser, 658-9938 after 6 p.m.

AVAILABLE

Reliable working woman to house sit for family on short-term educational leave, pets welcome, 821-3958, 9 a.m. to 5 p.m.

Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

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Interpersonal Relationships at Work

We are conducting a research investigation into the quality of interpersonal relationships at work. We would like to talk with men and women who are having or who have had quite positive experiences and/or difficult experiences with a coworker, supervisor, or subordinate. To find out more about this project and about how you can participate, please call the project director, Dr. Loreleigh Keashly, Department of Psychology, University of Guelph, Ext. 3976. All inquiries will be kept confidential.

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3. 1 Only — 1990 Chevrolet Corsica, 4-door sedan, 4 cylinder, automatic, serial no. 1G1LTS1G4LY106849, 115,000 km.
4. 1 Only — 1991 Dodge Spirit, 4-door sedan, V/6, automatic, serial no. 1B3BA4634MF61257, 96,000 km.

All bids should be directed to Paul Cook, Transportation Services, Vehicle Services Building, Ext. 2473.
All vehicles on a reserved bid basis.

Bids will be accepted until 4:30 p.m. February 11 and will be opened at 8:30 a.m. February 14.

CALENDAR

THURSDAY, FEB. 3

Eating Disorder Awareness Week - The Counselling and Student Resource Centre is sponsoring a fair from 10 a.m. to 2 p.m. in the UC courtyard. There will be a special price on soup and bread at lunchtime in Centre Six.

Pathology Seminar - "The Role of Mycotoxins and Antioxidants on the Incidence of Fatty Liver Hemorrhagic Syndrome in Laying Hens is the topic of graduate student Gonzalo Diaz at 11:10 a.m. in Pathology 2152.

Concert - The Department of Music presents a noon-hour concert with Brian Epperson and Leslie Kinton on cello and piano in MacKinnon 107. Admission is free.

Microbiology Seminar - Keith Poole of Queen's University discusses "Pumping Iron: Siderophore-Mediated Iron Transport in *Pseudomonas Aeruginosa*" at noon in Animal Science and Nutrition 141.

Population Medicine Seminar - Prof. David Sandals looks at "Northern Reflections: Problem Solving, A Unified View" at 4 p.m. in Lifetime Learning Centre 1713.

Jewish Students' Organization - A Holocaust survivor will speak at 5 p.m. in UC 333.

FRIDAY, FEB. 4

Nutritional Sciences Seminar - Dr. Richard Rose of the Chicago Medical School looks at "Vitamin C Transport and Metabolism in Antioxidant Function" at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Graduate student Dawn Kelk explores "Developmental Aspects of Sheep X Goat Interspecific Hybrid Embryos" at noon in OVC 1642.

Interdepartmental Evolution and Systematics Seminar - "Tradition and Social Learning in Birds and Mammals" is the topic of Bennett Galef, Jr., of McMaster University at 3:10 p.m. in MacKinnon 117.

Exhibition - A show of paintings by Judith Elsasser opens at the Faculty Club with a reception from 5 to 8 p.m. The show continues until March 4 and can be viewed Monday to Friday from 9 a.m. to 6:30 p.m.

Arboretum - Head out on "A Night Stalker's Owl Prowl" and explore the behavior and adaptations of owls. The walk leaves from the nature centre at 7 p.m. Cost is \$9 for adults, \$4.50 for children. Register at Ext. 4110.

SATURDAY, FEB. 5

Student Risk Management - A workshop will be held from 12:30 to 4:30 p.m. at the Eccles Centre. Call Ext. 6743 for more information.

Arboretum - "A Night Stalker's Owl Prowl" leaves from the nature centre at 7 p.m. Cost is \$9 for

adults, \$4.50 for children. Register at Ext. 4110.

Alumni Hockey - The HAFSA Student Council and HAFSA Alumni Association face off at 7:30 p.m. at the twin-pad arena. Spectators are welcome at Gryphs Sports Lounge. To join a team, call Jeff Dover at 416-690-5773.

Theatre in the Trees - It's opening night for the Arboretum's latest dinner-theatre production - Neil Simon's *Barefoot in the Park*. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Tickets are \$39 plus GST. For more information, call Ext. 4368.

SUNDAY, FEB. 6

Arboretum - Come to the Gosling Wildlife Gardens to find out which birds are visiting the feeders and what they're eating. The walk leaves from the nature centre at 2 p.m.

TUESDAY, FEB. 8

Student Involvement and Leadership Series - "Marketing, Membership and Money" is the topic from 5:10 to 7 p.m. in the Eccles Centre.

WEDNESDAY, FEB. 9

Biochemistry Seminar - Christine Fehlner of the Department of Chemistry and Biochemistry talks about the "Involvement of Integrins in the Development of Murine Mast Cells" at 12:10 a.m. in MacNaughton 222.

Third Age Learning - This lecture series for retired people continues with retired English professor John Bligh discussing "Continental Existentialism of Kierkegaard, Sartre and Marcel" at 10 a.m. and Prof. Terry Crowley, History, exploring "The Rebellions of 1937" at 1:30 p.m. Lectures are at the Arboretum Centre.

Physics Seminar - Yves Gingras of the University of Toronto is the guest speaker at 4 p.m. in MacNaughton 113.

THURSDAY, FEB. 10

Concert - The Department of Music presents a free noon-hour concert with the University of Guelph Singers, directed by Prof. Robert Hall, in MacKinnon 107.

FRIDAY, FEB. 11

Biomedical Sciences Seminar - "The Biomechanics of Foot and Mouth" is the topic of graduate student Jeffrey Thomason at noon in OVC 1642.

Gerontology Seminar - Ellen Ryan of McMaster University looks at "The Social Construction of Frailty in Old Age" at 12:10 p.m. in FACS 233.

Nutritional Sciences Seminar - Sadasivam Kaushik of Nutrition des Poisson will talk about the "Relation Between Dietary Factors and Somatotropic Action in Fish" at 3 p.m. in Animal Science and Nutrition 156.

Interdepartmental Evolution and Systematics Seminar - Larry Speers of Biosystematics Research Division in Ottawa discusses "Biodiversity and Information Systems" at 3:10 p.m. in Axelrod 117.

Concert - The Department of Music and Macdonald Stewart Art Centre present Piotr Buczek on violin and Beth Ann de Sousa on piano at 8 p.m. in MacKinnon 107. The program will feature works by Brahms, Mozart, Wieniewski and Kreisler. Tickets are \$10 general, \$8 for seniors and students. Call the Department of Music, Ext. 3144.

SUNDAY, FEB. 13

Arboretum - Make natural Valentine keepsakes for someone special at the nature centre at 2 p.m. Admission is free.

TUESDAY, FEB. 15

Physics Seminar - Peter Backx of the University of Toronto and Toronto General Hospital speaks at 4 p.m. in MacNaughton 113.

WORSHIP

A service will be held Jan. 27 at 12:10 p.m. in the chapel in UC 533 to mark the Week of Prayer for Christian Unity.

Catholic mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek - A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

Women's Spirituality, a study group viewing Donna Read's three NFB movies and reading extracts from Matthew Fox, Rosemary Radford Ruether and Starhawk, meets Thursdays at 12:10 p.m. in UC 335.

The Lutheran Lunch Bunch of the Lutheran Students' Movement meets Thursdays at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533. □

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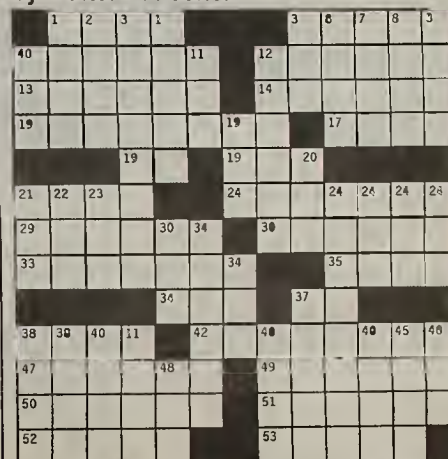
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1. Trojan country
5. Sierra —
10. Saluted
12. N.S. PORT
13. Geometric knitting pattern
14. Term of office
15. CALGARY RODEO
17. Hebrew instrument
18. Postscript: abbr.
19. Anger
21. Island east of Java
24. ALBERTA MOUNTAIN RANGE
29. Official decrees
32. Pass time idly
33. Talks about others
35. Roman garment
36. Low
37. ALTA.
38. NEIGHBOR
42. Indian axe
47. Changing suddenly
49. Dancer
50. Indistinct
51. Dog house
52. Shabby
53. German city

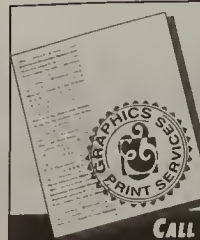
DOWN

1. Pastry shell
2. Latvian capital
3. 1988 CALGARY EVENT
4. Sharp barks
5. Leaching product
6. Novelist
7. Responsibility
8. Roman emperor
9. Spectator
10. Owens
11. Ruby or Sandra
12. Solid alcohol
16. Corporation head: abbr.
20. Habitat comb. form
21. Solicit charity
22. Bustle
23. Fleur-de —
25. ATHAPASKAN

SPEAKING INDIANS

26. Cadmus' daughter
27. Urge on
28. Adriatic or Dead
30. "Home Improvement" character
31. Lacking uniformity
34. — CANALS
37. Bundles
38. Cars for hire
39. Competent
40. Not erroneous
41. Irrational number
43. Build
44. Skin disease
45. German name for Vienna
46. Roman month's first day: abbr.
48. Be all ears

For crossword solution, see page 2



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FOCUS



Frances Reilly turned to the support group Parents Are People, Too, when she realized that her son was in charge of her life.
Photo by Maurice Oishi, University Communications

Problem son helps mother see that parents are people, too

by Maurice Oishi
University Communications

Frances Reilly's Christmases have gotten better. This year her son cut his stay short and left after five days.

A difficult admission, but one that doesn't diminish Reilly's love for her son. A variety of emotions — anger, compassion, concern, bitterness — pass over her face like clouds when she talks about her problem child. "It's a constant battle of wits between parent and kid," she says.

The abbreviated Yuletide visit came as a reprieve for Reilly, a receptionist in Physical Resources, who has come to realize that she must look out for herself first and foremost. Learning to deal with the anger she feels towards her son — and herself — has meant learning new rules.

Problems started in 1990 when her son, then 13, started stealing money from Reilly and her second husband, Doug. Then the school began calling about truancy and homework undone. At home, his blistering temper "would intimidate us so much that we were in fear for our lives," Reilly says.

That same year, she turned to the support group Parents Are People,

Too. "One year to the day later, I realized my life was unmanageable and my child was in charge," she says. By this time, the situation had come to a head, and Reilly had to choose between her son and Doug. Her son left.

"Although it was hard to do, it was the best thing for all of us," she says. Parents Are People, Too, helped her son find housing in Kitchener, arrange for schooling and line up student welfare.

The group doesn't endorse parental tyranny. But shape up or ship out — the choice was her son's, says Reilly. At the same time, the choice was her own, to either maintain the status quo or start taking control of her life.

"That's what we advocate — looking out for ourselves. Until I take care of me, nothing else is going to change."

Her son's problem, it turned out, was drugs. But the drugs were actually a symptom of something much deeper, says Reilly. "Our children are our mirrored self. They act out our deep secrets," manipulating weaknesses and frailties. "And we pay."

The product of strict parents, she went to the opposite extreme with her own three children. "I said I'd never do to my kids what my

parents did to me," she says. "But in the end, I didn't do them any favors."

Since joining Parents Are People, Too, Reilly has become a facilitator for the Guelph group, which consists of six to eight families with problem children. Seeing others working through similar plights can bring a new perspective to one's own problems, she says. As a result, the next move becomes more obvious. Above all, she says, the most important thing about the group is the unconditional support.

The approach is working. She and Doug are getting "selfish" about their own needs. And her son is facing responsibility for his own life. He's gone through drug-rehabilitation programs in the States, attends an after-care support group for teens with similar problems, has just gotten his driver's licence and is preparing for high school exams.

Reilly admits that all their differences will probably never be resolved. Still, her son "has helped me to mature and grow," she says. "He made me look at myself. I don't take a lot of baggage from people anymore." □

Professional development targets high school staff

Update '94, a professional development program for secondary school teachers, guidance counsellors and school administrators will be held on campus Feb. 18 and April 29.

About 400 secondary school staff are expected to participate in the 12th annual program, which will offer more than 50 sessions led by U of G faculty and staff. Sessions will cover such topics as plant viruses, theatre design/direction and finding science in ice cream.

Update is "one of the best-known professional-development programs in the province," says Chuck Cunningham, assistant registrar for liaison. "It really puts the teachers and guidance counsellors more in touch with the

University community."

The link with secondary schools is important to U of G, says Cunningham. A planning committee with representatives from the secondary school system as well as Guelph's academic and student service areas is pivotal in organizing each year's program, he says.

When it began in 1982, the program offered only a handful of sessions. Since then, it has grown dramatically in both number of participants and sessions.

Most of the participants are from central and southwestern Ontario, he says, but some come from as far away as Sudbury and Ottawa. □

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AT GUELPH

Volume 38 No. 5 Established in 1956

University of Guelph, Guelph, Ontario February 9, 1994

FIRST GLANCE

A penny for your thoughts

Well, if a penny isn't enough, how about dinner for two at the Whippletree? That's one of the prizes we're offering in a draw for people who participate in the 1994 *At Guelph* readership survey. Just take a few minutes to fill out the survey on page 8, then send it in and you'll be eligible for a draw for four prizes provided by our advertisers.

The survey invites comments on everything from how we look to how we cover the news. We'd like to know what you want in your campus newspaper and whether we're getting the job done. Don't miss this chance to make your opinions known.

Of course, you never have to wait for a readership survey to tell us what you think of *At Guelph*. We welcome all comments at Ext. 6580 or to any member of the editorial advisory board listed on page 2.

Happy
Valentine's
Day

Inside:

Sulawesi report goes public 4 & 5

Calendar 7

Thought for the week

It is almost as important to know what is not serious as to know what is.

John Kenneth Galbraith



Open meetings encourage community input into strategic-planning process

In a series of open meetings last week, Strategic-Planning Commission co-chairs Prof. Constance Rooke and Prof. Bev Kay invited questions and comments about the strategic-planning process. The meetings were held as the individual task forces prepared to begin their intense data-gathering exercise, which will proceed over the next few months.

Rooke and Kay reviewed the process and timetable for the strategic-planning exercise and reiterated that it is a bottom-up process. The open meetings were the first of many opportunities the University community will have for input into the process.

Rooke described strategic planning as an "adventure" that will create a blueprint for U of G for the 21st century. Financial realities will not drive the process, she said, although decisions must be made in the context of the budget.

The task forces begin their work this week. Several of the task forces will assess factors in the external environment such as economic, technological, social, demographic and political forces, that affect U of G. One task force will be concerned with values within the University and the institution's climate and culture. Others will study Guelph's internal

strengths and weaknesses in the areas of human resources, physical plant, administrative and academic support, academic programs and research, and student services.

Input from campus groups and individuals is vital to this process, stressed Kay and Rooke. Although the task forces will be asking for specific information, the commission needs to have the "big concerns and ideas before us from the beginning," said Rooke.

She invited individuals and groups to submit ideas and concerns in writing. "Don't worry about which task force should address your concerns," she said. "Send your brief to the commission, and we can direct it to the appropriate task force. The important thing is to contribute to the process."

Reports from the task forces focusing on the external environment and institutional values are expected to be completed by the end of March, said Kay. The University community will have an opportunity to respond in early April.

Another opportunity for widespread community response will come after June 3, when a draft report is expected to be completed. Kay anticipates that intense consultation will take place in the community from Sept. 15 to Oct. 30. The commission will submit its final report to the president by Nov. 30.

The questions, concerns and observations aired at the open meetings will be fed into the process. Issues raised at the meetings included:

- The strategic-planning process will be successful only if it involves existing decision-making bodies.

See COMMUNITY on page 2



The Texas-Thailand connection

M.Sc. graduate Nucharin Songsasen of Thailand, right, gets a surprise that makes a special day even brighter when friend Cindy Christian of Texas shows up for convocation. Christian, a former technician in the Department of Biomedical Sciences, helped

Songsasen adjust to Canada when she first arrived in 1991. Christian has since returned to Texas, but she secretly came back to Guelph last week to share in her friend's accomplishment. For more convocation coverage, see page 3.

Photo by Herb Rauscher, Photographic Services

Chair of Biomedical Sciences dies

Prof. David Porter, chair of the Department of Biomedical Sciences, died Feb. 6 at the age of 56. A member of OVC faculty since 1987, Prof. Porter is survived by his wife, Bobbi, one son, Carl, and a daughter, Tressa. Both children are U of G students.

A memorial service will be held Feb. 11 at 10 a.m. at the Arboretum Centre. Visitation will be Feb. 10 from 2 to 4 p.m. and 7 to 9 p.m. at the Wall-Custance Funeral Home.

Donations to establish a scholarship in Prof. Porter's name in the Centre for the Study of Animal Welfare may be sent to Alumni House. □

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Community raises strategic-planning issues

Continued from page 1

- Do the task forces have alternative working models they can consider when looking at resources, services and programs?
- How will the commission write a final report? Will it try to reach consensus or be determined by a majority ruling?
- The tight timeframe for producing the report may limit input from the community.
- How can we ensure that the recommendations will be implemented? We need an ongoing implementation process.
- Is the commission making connections with the province to understand policy directions?
- This process cannot be carried out in isolation. We must make connections with other universities.

- Is this a comparative analysis of Guelph with other universities? Or are we viewing ourselves in isolation?
- Are we sacrificing accessibility in the name of academic excellence? This is a problem for the entire Ontario higher education system.
- Should we have a theme or set

- of themes? Forces outside the University are trying to drive a wedge between teaching and research.
- What is the relationship between the Academic-Restructuring Committee and strategic planning?
- A sense of ownership drives research and academic programs,

- which are developed from the bottom up; financial constraints are imposed from the top down. We need to work with that sense of ownership.
- Publishing information about this exercise is crucial. The commission needs to use special and varied communications tools. □

★ ★ ★ ★

SPC task force membership

Task forces are beginning in earnest to gather data on the specific issues that feed into the strategic-planning process. Faculty, staff and students on the task forces have been selected to represent the institution, not their particular department, college or directorate. Individual task forces will be calling for input from individuals and groups in the University community. Unsolicited input to the Strategic-Planning Commission is also welcome.

(F = faculty, P = professional staff, S = staff, U = undergraduate student, G = graduate student, C = CUPE, ES = exempt staff, A = alumnus)

1. Environmental Scan: Economic and Technological Forces

Ross Hallett (chair) (F)
Gerrit Bos (P)
David Evans (F)
Alan Gale (F)
Ellen Goddard (F)
Wayne Marsh (P)
David Ogden (U)
John Liefeld (F)
Louis Christofides (F)
Resource: Ron Elmslie, Isobel Heathcote, John Black
Staff support: Mike Kupferschmidt

2. Environmental Scan: Social, Demographic & Educational Forces

Donna Woolcott (chair) (F)
Carol Galligan (G)
Shelly Birnie-Lefcovich (P)
Virginia Gray (P)
Lancefield Morgan (U)
Theresa Lim (A)
Carol Sherman (P)
Brian Wilcock (F)
Alun Joseph (F)
Anne Martin Matthews (F)
Resource: Fred Evers, Sid Gilbert
Staff support: Barbara Abercrombie

3. Environmental Scan: Political/Legal Forces, U of G Image and Competitive/Collaborative Position Vis-a-vis Other Postsecondary Institutions

Pat Gentry (F) and Derek Jamieson (P) (co-chairs)
Nigel Bunce (F)
Chuck Cunningham (P)

Jonathan Sherbino (U)
Colleen Roberts (ES)
Jeff Wilson (F)
(To be added) (G)
O.P. Dwivedi (F)
Resource: Jane Watt
Staff support: Cathy Beattie, Mary Cocivera

4. Assessment of Values and Institutional Climate/Culture

Fred Evers (chair) (F)
Andre Auger (P)
Laura Beattie (U)
Sheren Bowers (C)
Trevor Dickinson (F)
Madie Fêrêre (P)
Robin Hicks (G)
Gerald Manning (F)
Mary Ann Robinson (S)
John Roff (F)
Resource: Brian Earn, Indira Ganaselal, Heather Heath, Alex Michalos
Staff support: Brian Pettigrew

5. Strengths and Weaknesses: Human, Financial and Physical Plant

John Barta (chair) (F)
Tracey Alberico (P)
David Copp (P)
Larry Hoy (P)
Elaine Kirby (P)
Colin Marsh (C)
John Miles (P)
Keith Upton (P)
Ric Knowles (F)
Resource: Cathie Beattie, Bruno Mancini, John Campbell
Staff support: Steve Gismond

6. Strengths and Weaknesses: Administrative & Academic Support

Jose Robinson (chair) (P)
Nancy Bailey (F)
Diane Boyd (S)
Shari Dorr (U)
Susan Faber (P)
Roger Horton (F)
Terry Gillespie (F)
Gary Round (P)
Christine Gottardo (G)
Liz Honegger (P)
Resource: Don McIntosh, Larry Porter, Phil Jones, Carl Gorman, Karen Kovats
Staff support: Mike Kupferschmidt

7. Strengths and Weaknesses: Services to Students

Trish Walker (chair) (P)
Renier Groen In't Woud (U)

Fran Keen (S)
Grase Kim (U)
Joe Mokanski (F)
(To be added) (U)
Brenda Whiteside (P)
Jim Atkinson (F)
Tracy Gooden (G)
Resource: Peggy Patterson, Mei-Fei Elrick, Nancy Schmidt, Alex Goody
Staff support: Steve Gismond

8. Strengths and Weaknesses: Academic Programs and Research

Derek Bewley (overall chair) (F)
(a) Arts and humanities
Michael Keefer (chair) (F)
Norman Gibbins (F)
Ward Chesworth (F)
Mary Cyr (F)
Alan Filewood (F)
Mark McCutcheon (U)
Susan Morrison (P)
David Farrell (F)
Donna Beaudin (G)
Staff support: Barbara Abercrombie

(b) Social sciences
Mike Hoy (chair) (F)
Donna Lero (F)
Rod Barron (F)
Jamie Snell (F)
Victor Ujimoto (F)
Dorin Whelley (G)
Tammy Bray (F)
Mario Finoro (S)
Mark Steele (U)
Staff support: Brian Pettigrew

(c) Natural sciences
Bryan McKersie (chair)
Hugh Earl (G)
Chris Gray (F)
Ann Hahnel (F)
Isobel Heathcote (F)
Alex Michalos (F)
Bob Frank (S)
Brian Eam (F)
Chris Parent (U)
Reggie Lo (F)
Staff support: Pat Hoare

(d) Professional programs
George Penfold (chair) (F)
John Leatherland (F)
Val Davidson (F)
Brian Derbyshire (F)
Gary Kachanoski (F)
Larry Martin (F)
Jim Pickworth (F)
Baljit Singh (G)
Laura Halfpenny (U)
Staff support: Cathy Beattie □

Acting adviser named

Manori Edwards has been named acting international student adviser in International Education Services for the winter semester. She replaces Don Amichand, who has taken early retirement.

Edwards is Canadian, but has studied and worked abroad in Asia, the United Kingdom and Africa, including a stint as a high school teacher in Zambia.

She has a master's degree from the University of Western Ontario, where she was involved in international student issues.

Both at U of G and Western, Edwards has served as a teaching assistant and research assistant. Last year, she was a peer helper in the office of the international stu-

dent adviser. She has also done volunteer work for the Kids' Help Phone, Covenant House in Toronto, World Vision and Amnesty International.

Amichand, who served as international student adviser since 1969, is known in the community for his efforts to encourage multiculturalism and advocate the cause of international students, says Andre Auger, director of the Counselling and Student Resource Centre.

"Through his office, he provided assistance, a warm welcome and support in time of need for several generations of international students," Auger says. □

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Winter convocation: A time for looking good



Reg Thomson

Always be a student and teacher

Retired business executive Ken Murray, interim head of University Affairs and Development, offered advice to OVC, OAC and FACS graduates Feb. 4 based on experiences he's shared with Reg Thomson, recipient of an honorary doctorate of science at the afternoon ceremony.

Although Thomson, a former OVC faculty member and the founding dean of the Atlantic Veterinary College, and Murray, retired president of J.M. Schneider, have led differing lives, they share a rural upbringing, degrees from U of G and a commitment to the institution as alumni.

Thomson took pride in his ability as a young farmer and carried a devotion to his career as a veterinarian, learning not only of its advances but also its history, said Murray. "Reg believes, as I do, that we need to know the roots from which we grow, move and have our being."

Murray urged the graduates to strive for higher knowledge. "Whatever course in life you follow, you must never forget you must be continuously a student and a teacher."

Taking pride in oneself and accepting interdependence with others has been central to Thomson's being, Murray said.

"His whole life is a testament to the feeling of pride he had in what it was he did. He set high standards for himself and those around him. He wanted to improve things." □



Ken Murray

Embrace community

In a society that tries to balance the demands of the individual with the needs for a community culture, the fulcrum has shifted in favor of a self-oriented culture.

That's what sociologist and honorary degree recipient Raymond Breton told graduates of the College of Social Science at morning convocation Feb. 4.

The post-war period saw the erection of a social safety net during a time when there was a growing belief that everyone would benefit from these programs, said Breton. Over the years, this attitude continued unabated.

But the pendulum has slowly begun its descent, he said. "While in the previous period, institutions had to deal with rising expectations, in the present, they have to manage lowering expectations."

A changing social landscape has left people with a perceived lack of control, Breton said. The public lexicon, infused with words like transnational and global markets, has fortified this view and driven the individual to address concerns closer to home.

Rather than a negative trend, however, he sees this as a hopeful sign of community rejuvenation. He urged graduates to embrace these challenges. "This is the kind of responsibility that can give hope to the future." □



Raymond Breton



Retired professor Eleanora Cebotarev, Sociology and Anthropology, accepts congratulations from Chancellor Lincoln Alexander as she is named professor emerita Feb. 4.

Photos by Herb Rauscher, Photographic Services

Be vulnerable and be free

At the Feb. 4 evening ceremony for the College of Arts, Prof. François Paré, French Studies, encouraged the graduating class to remain fiercely vulnerable and free.

It's not enough to be different, he said. One must talk about lucidity, go about one's business with eyes open and be staunchly aware.

Life, power, knowledge and love must be considered in terms of domination, oppression, silence and marginalization — forces that are not easily recognized, said Paré.

Universities foster the free use of language and are agents of personal and collective liberation, he said. But they also formulate theories, classifications, mandates, guidelines, structures, directives and regulations and therefore function within the realms of oppression and censorship.

It is easy for people to recognize the forces of domination, but not so easy when well-meaning ideas become unquestioned truths, he said.

"It is easy to be blind, to be blinded by excessive truth, by our intense desire for clarity. Often freedom seems to originate in an increased tolerance for disorder, for unclarity."

Paré said vulnerability is the key to understanding the world and the forces within it that aim to control and oppress. "In creating life and success around you, may you in the years to come remain fiercely vulnerable and fiercely free." □



François Paré

Refuel, redirect the economy



Tom Brzustowski

of Ontario taxpayers, who pay for 80 per cent of a university education.

Speaking at the Feb. 5 morning convocation for graduates of CBS and CPES, Brzustowski said graduation presents "a change in the balance between enjoying the rights and privileges of line in society and meeting the obligations that come with it." Beyond the civic responsibilities of being lawful, volunteering to aid the needy and paying taxes, graduates have the onus of refuelling and redirecting the economy, he said.

The good news of Canadian industrial successes must be viewed in the light of the new reality of corporate downsizing and job losses, said Brzustowski, who received an honorary doctorate of science. "I have become convinced that reducing unemployment must become a civic responsibility."

Devising new goods and processes valued here and abroad is critical to the success of Canada and its workforce, he said.

University-honed skills and minds are ripe for the test, regardless of whether a graduate becomes a teacher or a public servant or goes into business, said Brzustowski. Expect changes in the workplace and even the need to create one's own workplace.

"The awarding of your degree is not placing a label on a finished product," he said. "It is more like an admission ticket to a lifetime of learning."

Senate says 'yes' to releasing

by Sandra Webster
University Communications

The report by external reviewers on the Sulawesi Regional Development Project (SRDP) to the Senate Committee on International Activities (SCIA) was released to the public last week.

At a special meeting Feb. 1, Senate endorsed SCIA's recommendation that the 147-page report be released with a covering background information report from SCIA and responses from project director Tim Babcock, past director Prof. Harry Cummings of the University School of Rural Planning and Development (USRP&D) and external reviewer Edwards McKinnon of Indonesia, who was not involved in drafting the final report.

All other information received by SCIA is available for viewing at the Senate Secretariat office on Level 4 of the University Centre.

Interested persons are invited to respond to the recommendations contained in the report by writing to SCIA c/o the Senate Secretariat by Feb. 28. These comments will also be made public.

In its covering background information report, SCIA expresses concern that the external report was not written by three external reviewers, in accordance with the committee's original charge. SCIA says the report contains a useful analysis of U of G's policy and its application and a set of

constructive recommendations. But the committee believes events have overtaken some of the analysis and recommendations, that the report may contain factual errors and that it lacks balance because of the lack of input from an Indonesian expert.

There is no merit in debating whether Guelph should have signed the initial contract because it will obscure the issue of responding to recommendations and how to proceed in the future, says SCIA.

SCIA chair Prof. Bruce Sells, dean of the College of Biological Science, told senators the committee may make recommendations for changes to the project or the contract, but the committee believes there is no merit in U of G abandoning the project.

SCIA believes the work should be completed and that particular attention should be paid in the closing stages to accurately documenting the activities of this project so that others can learn from it, said Sells.

President Mordechai Rozanski told *At Guelph* Feb. 3 that SCIA's report to Senate was balanced and thoughtful and that it contained persuasive recommendations. He supports SCIA's recommendation to release the external reviewers' report along with the various responding materials "as a package to provide a full and balanced perspective on the project."

Rozanski said he also agreed with Senate's action as being in the best interest of the academic community. "To withhold the full package would raise the issue of suppression of information rather than focus attention on the merits and feasibility of the external reviewers' recommendations," he said.

External report

The report by external reviewers Meyer Brownstone, chair of OXFAM Canada and director of York University's Centre for Research on Latin America and the Caribbean; and Clovis Demers, vice-president of Montreal's International Centre for Human Rights and Democratic Development, contains 16 recommendations.

Their mandate was to determine if the Sulawesi Project was adhering to the Senate Policy on University Involvement in International Activities in three areas — possible violations to academic freedom, a possibility that SRDP activities or operations were aiding human rights violations or environmental destruction in Indonesia, and a possibility that the project might lend legitimacy to the government or agencies responsible for human rights or environmental violations.

The reviewers' findings were as follows:

- U of G's policy is sound and consistent with current federal policies and thinking on human rights and protection of the environment. It should be accepted by agencies such as the Canadian International Development Agency (CIDA), and other Canadian universities should be encouraged to develop their own policies consistent with the spirit of U of G's.

■ Clauses in the contract and graduate field work conditions violate academic freedom and freedom of expression.

■ Gender equity issues have not been addressed consistently. The Sulawesi Project is doing little to close the gender gap in staff, to provide resources to address the policy on women in development (WID), to hire WID co-ordinators and to plan a project that explicitly considers gender issues.

■ There is no evidence that the project's activities are aiding environmental destruction or human rights violations. The reviewers note that farmers, extension workers and village groups reported many recent accomplishments — two annual rice crops instead of one, healthier cocoa trees, clean drinking water, regular village meetings to plan economic, social and cultural activities and, in particular, the building of shrimp ponds to allow the mangrove forests to re-establish themselves.

But a large portion of the report — 50 pages — is devoted to a history and general discussion of human rights abuses in Indonesia separate from the U of G project, and it is around this issue that the report is most critical of the University's involvement there.

Brownstone and Demers acknowledge that SRDP is not a human rights project, but they argue that Guelph is at risk of being seen as adding legitimacy to the Indonesian government's approach to human rights.

The reviewers' recommendations cover five areas:

1. Academic freedom and other basic values
- Change the wording in the contract with CIDA to ensure that constraints on freedom to publish are removed, and

guarantee University independence to select and hire project staff.

- Translate into Bahasa Indonesia all published and unpublished SRDP material that could be of use to Indonesian researchers, administrators and non-government officials (NGOs).

2. Human rights and the environment

- Link the gender components of the project's planning and training activities to gender research and courses on campus and strengthen activities in the field.

- Include a significant number of women on the SRDP field team.

- Instruct the field team to support increasing awareness of gender issues at village and higher levels.

- Seek out NGOs and institutions of learning in Sulawesi and Jakarta and devise means of involving them in SRDP activities.

- Encourage U of G faculty in the social sciences and humanities to visit the project in the field and relate with the team as University colleagues.

- Develop a dialogue and positive relations with Canadian-based groups interested in Indonesian human rights and democratic development.

3. Legitimization

- Reiterate the basic elements in the policy as a basis for resolving the contradiction between them and the existing relationship with the government of Indonesia, with the overall goal of establishing separation between the University and the government and shifting the institutional partnership to NGOs and perhaps local universities.
- Choose a forum where the campus community can inform itself and debate from all perspectives the policy, the University's presence in Indonesia, the human rights situation in the country and the reasons for and against continued involvement with SRDP.

- Use the following key passage in the policy as a guiding principle in debates on SRDP and in dialogue with the Sulawesi team: "The closer the connection between the University's activity and the offending agency, the closer its relation to the offensive practices and the greater the likelihood that the

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Sulawesi report to the public

activity lends legitimacy to the offending agency, the greater must be the compulsion to decide against University involvement."

4. U of G and the Sulawesi Project

■ Develop closer and deeper links between the SRDP field team and U of G faculty and other members of the University community.

■ Engage all U of G faculties and schools in SRDP, on campus and in the field, with special attention to academics in the social sciences and humanities.

■ Encourage research by students and faculty on the Sulawesi Project, its role, its target population and the Indonesian administration, and use this research in courses and seminars at Guelph.

5. The policy

■ Disseminate in an appropriate form, on and off campus, the full text of the policy.

■ Review policy enforcement procedures and mechanisms with a view to quality and thoroughness of the information submitted by proponents seeking approval of their initiatives, broad cross-campus peer involvement in the assessment and approval of proposals and effective selective monitoring.

Babcock/Cummings response

In their response to SCIA on the external reviewers' report, Babcock and Cummings say the report contains many factual errors and lacks a due process approach that tries to assemble proof of the actual commitment of fault.

They say the reviewers denied the research function of the project and misunderstood the contractual position and status of the rural development advisory positions.

The reviewers make no plausible case that the project has been involved in activities that infringe on human rights, academic freedom or environmental degradation, note Babcock and Cummings. The reviewers also failed to give credit to the positive/constructive initiatives and achievements of the project.

According to Babcock and Cummings, much of the information in the report is 18 months old, much of the language is tendentious and Brownstone and Demers lack knowledge of and experience in Indonesian matters.

The Sulawesi Project has never been restricted from publishing anything because of contract restrictions, say Babcock and Cummings, who point to SRDP's major contributions to undergraduate and graduate teaching and research at U of G.

The project has strong connections to the University through USRP&D as its "academic home," and the Sulawesi forums are an important part of SRDP's on-campus presence that provide for open dialogue with the academic community on issues related to the project.

Babcock and Cummings also note that two senior University environmentalists — Prof. Michael Moss, associate dean of the Faculty of Environmental Sciences, and Prof. John Fitz-Gibbon, USRP&D — have been extensively involved in the project.

There has been wide public campus debate on SRDP from 1984 to the present, they continue, and the project went to considerable lengths to involve the University and to integrate the project into the community.

The reviewers "totally neglected" scholarly and other literature with other perspectives on civil and human rights in Indonesia, say Babcock and Cummings, who point to improvements in access to basic human needs in Indonesia.

They also discount the reviewers' claims that SRDP has done little in the way of local-level empowerment via bottom-up planning, and they say the reviewers had great difficulty coming to grips with the relative degrees of "ownership" and "responsibility" for the project.

Babcock and Cummings take issue with the reviewers' statement that CIDA and U of G have little or no control over the project's activities that are the monopoly of the Indonesian government. And they note that the reviewers failed to mention ground-breaking SRDP initiatives to deal with human rights issues, NGO involvement and participatory development.

The Sulawesi Project has been active in dealing with gender issues, they say. The U of G team is now 25-per-cent female, and a new short course in gender-sensitive projects is being planned.

Babcock and Cummings conclude by agreeing that many of the report's recommendations are acceptable. But they argue that it would be improper if some

recommendations were accepted without adequate acknowledgment that some situations, actions or approaches have long been in place. Some recommendations are the responsibility of other units, they add.

They also note that much of the SRDP material is already translated into Bahasa Indonesia.

McKinnon letter

McKinnon, too, says the external reviewers' report lacks balance and suffers from time lag between their visit to Sulawesi and submission of their report.

Alleged constraints on academic freedom are largely theoretical, he says, and the Sulawesi Project has done better than most in making material available in the Indonesian language. He also notes that groundwork has been done on gender issues.

To switch the project on short notice to operate through NGOs is not feasible, says McKinnon, adding that NGOs appear to have more freedom of movement than they had before.

He supports the recommendations to encourage faculty to visit the SRDP field team and for more dialogue between Canadian-based groups interested in Indonesia, as well as in human rights and democratic development.

It is neither feasible nor desirable for the University to distance itself from the government of Indonesia, says McKinnon. Guelph should complete the project, but with firmer emphasis on gender and the roles of the NGOs. If Guelph withdraws from the project, "the only ones to suffer will be the villagers and communities which it (the project) is designed to assist."

McKinnon endorses a campus forum to debate the case for and against involvement in Indonesia. He also encourages closer links among SRDP, faculty and the community and agrees that "within limits," faculty in the social sciences and humanities should be involved.

"The SRDP is a development project and not purely an academic exercise," he says, and the project's goals must be clearly stated so as not to overburden the project management. He endorses the encouragement of research by students and faculty on the project and more use of research in courses and seminars.

Brownstone and Demers's comments on the suffering of the Indonesian people are overstated,

says McKinnon. Violations of human rights have taken place and are still taking place, he says, but trends suggest that the situation is being alleviated and is not as bad as painted.

Senate debate

Discussion at the special meeting of Senate was wide-ranging.

Prof. John McMurtry, Philosophy, charged that there has been an "orchestrated discrediting of the reviewers and the review." The University "doesn't like the report because it did not get a chance to review it before the reviewers submitted their final report," he said.

OAC Dean Rob McLaughlin called for an amendment to the motion that would have released only the recommendations publicly. He said he sensed political games were being played by individuals on a "witch hunt" that were overriding what the institution had set out to do — to test policy and guidelines against an existing project.

Prof. Ab Moore, Rural Extension Studies, supported McLaughlin's amendment, saying SCIA should be allowed to do its work and bring back its recommendations to Senate at a later date. The amendment was defeated.

During the debate, Senate moved from a discussion on releasing the report to the contents

of the report. Prof. Alun Joseph, Geography, quoted from a letter from Moss, who was out of the country, saying the reviewers lacked knowledge of Indonesia and that the presentation was biased.

President Mordechai Rozanski stepped down from the chair to share with Senate his findings on his fact-finding visit to Indonesia. Prof. John Simpson, Physics, rose on a point of order to say Senate was meeting to discuss releasing the report, not to debate its contents. Simpson also questioned why Senate was discussing release of the report when the president had already given it to the Indonesian government and most senators had already obtained a copy. Rozanski told *At Guelph* Feb. 3 he had not released the report to the Indonesian government while he was in Indonesia. But on the advice of the Department of Foreign Affairs and International Trade Canada and with the knowledge of SCIA, U of G sent a copy to the Indonesian ambassador in Ottawa in early January in anticipation of it being released at the Jan. 17 meeting of Senate, he said.

Prof. Brian Calvert, Philosophy, called for a public forum in a few weeks to discuss the contents of the report. Student senator Chris Parent agreed that a forum would be informative and useful. □

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Leader sought for rural communities program

The Office of Research is seeking nominations and applications for the position of leader of the sustainable rural communities program of the Ontario Ministry of Agriculture and Food's research and services agreement with U of G.

The leader will be responsible for planning, implementing, operating and managing the sustainable rural communities program, including its budget. The successful candidate will be appointed (up to 20 per cent) for a five-year renewable term.

Candidates must be senior faculty members with strong research, administrative, interpersonal and communication skills and an ability to inspire researchers, develop team research and be a mentor.

Applications and nominations, including curriculum vitae and names of three references, must be submitted by Feb. 17 to Prof. Larry Milligan, vice-president for research, on Level 4 of the University Centre. For more information about the position, call Milligan at Ext. 3081. □

JOBS

As of At Guelph deadline Feb. 4, the following opportunities were available to on-campus employees only:

Secretary, Central Purchasing, secondment or temporary full-time for a year, Salary range: \$12.60 minimum, \$15.75 job rate, \$18.90 maximum.

Annual Fund Assistant, Annual Giving and Support Services, University Affairs and Development. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Meat Lab Butcher/Technician, Animal and Poultry Science. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Agricultural Assistant, Animal and Poultry Science. Salary range: \$13.81 minimum, \$17.26 job rate,

\$20.72 maximum.

Driver, Mail Services. Financial and Administrative Services, temporary full-time leave, regular full-time CUPE employees only. Probation rate: 20 cents per hour lower than job rate.

Executive Secretary, Office of the Vice-President for Research. Salary range: \$13.81 minimum, \$17.26 job rate, \$20.72 maximum. **Inter-Media Technician, Department of Fine Art,** eight-month continuing limited-term appointment. Salary range: \$15.70 minimum, \$19.63 job rate, \$23.55 maximum.

Welder/Steamfitter, Maintenance Department. Job rate: \$18.15 per hour. Probation rate: 20 cents per hour lower than job rate. □

Program rescheduled

The "Allergy Beware" program originally scheduled for Jan. 27 has been moved to Feb. 16 at 7 p.m. in Room 1715 of the OVC Lifetime Learning Centre. Cost at the door is \$5 general, \$2 for students.

CIDA cancels awards

The Canadian International Development Agency has cancelled its Awards for Canadians and Awards for Professionals, making the scheduled Feb. 15 deadline for applications invalid. Contact International Education Services in April for more news of the awards.

CPES seeks nominees

The College of Physical and Engineering Science Student Council seeks nominations for next year's student council. Forms and information are available from the council's office in Room 431 of the MacNaughton Building. Nomination deadline is Feb. 20. The council is also calling for suggestions about revising its constitution. Send ideas to the council office by Feb. 25.

NOTICES

Pruning workshop

Want to learn the art and practice of pruning? Arboretum horticulturist Henry Kock explains all in a three-hour workshop covering the principles of easy and correct pruning. Two sessions are planned — March 8 and March 10. Both run from 1 to 4 p.m. at the Hilton Centre. Cost is \$25. Register by Feb. 22 at Ext. 4110.

Perinbam Award

The deadline for nominations for the Lewis Perinbam Award in International Development is Feb.

21. The award recognizes excellence and imaginative leadership in a social or economic area pertaining to development in the Third World. For details, visit International Education Services on Level 4 of the University Centre.

Winterfest '94

The School of Landscape Architecture brings the community to campus for its annual Winterfest '94 Feb. 10 to 13. Five groups of students will collaborate with community groups to develop design solutions for real projects during the event. The projects include a redesign of the landscape around Church of Our Lady and a design for a garden in the courtyard at Centennial high school. Winterfest '94 will also feature a snow sculpture, social events and lectures. For more information, call Michele Benoit at Ext. 8539. □

CLASSIFIEDS

FOR RENT

Unfurnished room in townhouse to share with two male graduate students, limited parking, no smoking or pets, Victoria-Woodlawn area, express bus to University, \$230 a month plus one-third utilities, Ext. 3156 or 821-4023.

WANTED

Notebook computer, color preferred, either 486 Intel or 030 Motorola, Peter or Linda, telephone or fax at 822-2904.

Jenny Lind baby's change table and dresser, 658-9938 after 6 p.m.

FOR SALE

Airtight woodstove, medium size with six-inch pipes, excellent condition, Ext. 2398 or 843-5834 after 6 p.m.

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Experienced student for babysitting, evenings, weekends, Wednesday and Friday mornings and Thursday afternoons, Meredith, 821-4058.

Crossword answers

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V | I | O | L | E | T | P | E | D | A | L | | | | |
| A | R | R | I | T | I | V | E | A | L | I | C | I | A | |
| N | A | I | V | E | R | C | L | A | M | O | R | | | |
| E | E | R | | E | O | E | N | S | | | | | | |
| L | U | N | D | I | S | I | L | A | N | E | | | | |
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| E | D | A | M | | I | N | A | | S | N | A | P | | |
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| D | O | I | N | E | E | | | D | I | N | S | E | T | S |

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CALENDAR

THURSDAY, FEB. 10

Raithby Lecture - Gordon Bowman discusses "Challenges to the Ontario Pork Industry" at 11:10 a.m. in Animal Science and Nutrition 141.

Concert - The Department of Music presents a free noon-hour concert with the U of G Singers, directed by Prof. Robert Hall, in MacKinnon 107. Guest soloist is baritone John Medina.



Violinist Piotr Buczek performs Feb. 11 at the Macdonald Stewart Art Centre.

Mechanics" at 1:10 p.m. in MacNaughton 222.

THURSDAY, FEB. 17

Concert - The Department of Music presents a University of Western Ontario/U of G faculty concert featuring department chair Mary Cyr on viola da gamba and Western's Richard Semmens on recorder and Sandra Mangsen on harpsichord. It begins at noon in MacKinnon 107. Admission is free.

FRIDAY, FEB. 11

Nutritional Sciences Seminar - Sadasivam Kaushik of Nutrition des Poisson talks about the "Relation Between Dietary Factors and Somatotropic Action in Fish" at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - "The Biomechanics of Foot and Mouth" is the topic of Prof. Jeffrey Thomason at noon in OVC 1642.

Gerontology Seminar - Ellen Ryan of McMaster University looks at "The Social Construction of Frailty in Old Age" at 12:10 p.m. in FACS 233.

Interdepartmental Evolution and Systematics Seminar - Larry Speers of Biosystematics Research Division in Ottawa discusses "Biodiversity and Information Systems" at 3:10 p.m. in Axelrod 117.

Concert - The Department of Music and Macdonald Stewart Art Centre present a concert by Piotr Buczek on violin and Beth Ann de Sousa on piano at 8 p.m. at the centre. The program will feature works by Brahms, Mozart, Wieniewski and Kreisler. Tickets are \$10 general, \$8 for seniors and students, and are available from the Department of Music, Ext. 3144.

SATURDAY, FEB. 12

Classics Symposium - The Classics Club presents an all-day symposium on "Epic Tradition in Greece and Rome" beginning at 9:30 a.m. in MacKinnon 107. Topics include "The Pleasure of Song: Muses and Sirens" and "The Embassy to Achilles and His Response." Cost is \$10.

SUNDAY, FEB. 13

Arboretum - Make natural Valentine keepsakes for someone special at the nature centre at 2 p.m. Admission is free.

MONDAY, FEB. 14

Lecture - B.C. bioregionalist Judith Plant speaks on "Developing Sustainability: An Eco-feminist Strategy for a Liveable Future" at 7:30 p.m. in UC 103. The talk is organized by OPIRG.

TUESDAY, FEB. 15

Our World - "Democracy in Mexico: One Canadian's View from the Inside" is the topic at 12:10 p.m. in UC 441.

Physics Seminar - Peter Backx of the University of Toronto and Toronto General Hospital is guest speaker at 4 p.m. in MacNaughton 113.

Music Lecture - The Department of Music is sponsoring a talk by A.A. Mensah on African music at 4 p.m. in MacKinnon 107.

WEDNESDAY, FEB. 16

Third Age Learning - This lecture series for retired people continues at 10 a.m. with retired English professor John Bligh on "American Pragmatism" and at 1:30 p.m. with Prof. Henry Wiseman, Political Studies, on "The Quiet Revolution." Lectures are at the Arboretum Centre.

Biochemistry Seminar - Gisele White, Chemistry and Biochemistry, looks at "Bridging the Gap Between Biological Osmoregulation and Membrane

FRIDAY, FEB. 18

Nutritional Sciences Seminar - "Adventures of a Holobiologist in a World of Free Radicals" is the subject of Prof. Harold Draper at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Prof. Keith Betteridge looks at "Attitudes to Embryos: Some Causes and Consequences" at 12:10 p.m. in OVC 1642.

Interdepartmental Evolution and Systematics Seminar - Peter Gogarten of the University of Connecticut talks about "Evolution of Protein Pumping ATPases: Rooting the Universal Tree of Life" at 3:10 p.m. in Axelrod 117.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thombrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek - A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

Women's Spirituality meets Thursdays at 12:10 p.m. in UC 335.

The Lutheran Lunch Bunch of the Lutheran Students' Movement meets Thursdays at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533.

"The Love of Friendship" is the theme of an intergenerational service Feb. 13 at 10:30 a.m. at the Guelph Unitarian Fellowship on Harris Street. ☐



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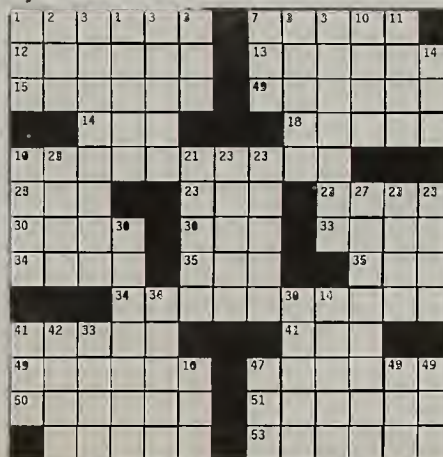
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ACROSS

1. N.B. FLORAL EMBLEM
7. Foot operated lever
12. Get there
13. Dancer
15. More ingenious
16. Up roar
17. Mountain ending
18. Anthony and Barbara
19. SCENE OF A WAR OF 1812 BATTLE
24. Banker's abbreviation
25. Exclamation of wonder
26. Grinding stone
30. Dutch cheese
32. Pig — poke
33. Crack, as a whip
34. Composition for one
35. For each
36. Aunt: Spanish
37. Good-for-nothing person
41. Stretch of land
44. Mountain gap
45. Artery trunks
47. Organic growth
50. Decrepit auto

DOWN

51. Draft regulator
52. Gift recipient
53. Assaults
20. Reverse
21. Steal
22. Hermit
23. CANADA'S JUNO FOR ONE
27. Pronghorn
28. Wood fastener
29. Indescent gem
31. N.B. CITY
38. Public warehouse
39. Indian for one
40. Annelids
41. Mahal
42. Highway
43. Singer Guthrie
46. Needle threading hole
47. Activity
48. Money gambled
49. Bitter vetch

For crossword solution, see page 6

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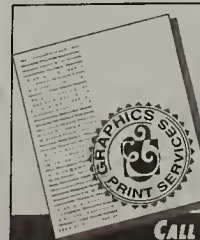
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We believe *At Guelph* should from time to time ask our readers how we're doing. We'd like you to take a few minutes to tell us your thoughts about the publication. Thanks to our advertisers, we're able to offer a chance for prizes for those who complete the survey and return it by Feb. 21. Valued at \$75 each, the prizes are two dinners for two at the Whippletree and two gift certificates for other campus retail operations.

Drop the survey off in person to *At Guelph* or send it to *At Guelph* Readership Survey, University Communications, Level 4, University Centre, University of Guelph, Guelph, Ont. N1G 2W1. You can also fax your survey to 824-7962. Don't forget to include your name (please print clearly) and telephone number if you wish to be eligible for the draw. Winners of the draw will be notified by telephone and announced in *At Guelph*.

1. How often do you read *At Guelph*?

- a. Every issue ☐
 b. Most issues ☐
 c. Occasionally ☐
 d. Don't read it ☐

2. What do you think of *At Guelph*'s frequency? Should it be published:

- a. Weekly ☐
 b. Twice/monthly ☐
 c. Monthly ☐
 d. Other (please specify) ☐

3. Here are some of the subjects covered regularly in *At Guelph*. On a scale of 1 to 5 (1 is low and 5 is high), rate your interest in these:

| | Please circle | | | | |
|--|---------------|---|---|---|------|
| | Low | | | | High |
| a. Administrative news | 1 | 2 | 3 | 4 | 5 |
| b. Board of Governors/Senate | 1 | 2 | 3 | 4 | 5 |
| c. Books/publications | 1 | 2 | 3 | 4 | 5 |
| d. Calendar of events/notices | 1 | 2 | 3 | 4 | 5 |
| e. Classifieds | 1 | 2 | 3 | 4 | 5 |
| f. Commentary page | 1 | 2 | 3 | 4 | 5 |
| g. Crossword | 1 | 2 | 3 | 4 | 5 |
| h. Letters to the editor | 1 | 2 | 3 | 4 | 5 |
| i. Faculty/staff/student activities | 1 | 2 | 3 | 4 | 5 |
| j. Police/safety news | 1 | 2 | 3 | 4 | 5 |
| k. Research | 1 | 2 | 3 | 4 | 5 |
| l. Supplements (discussion papers, budget) | 1 | 2 | 3 | 4 | 5 |
| m. Student news | 1 | 2 | 3 | 4 | 5 |
| n. City of Guelph news | 1 | 2 | 3 | 4 | 5 |

4. What other columns/topics would you like to see in *At Guelph*?

5. On a scale of 1 to 5 (1 is low and 5 is high), rate the quality of the following in *At Guelph*:

| | Please circle | | | | |
|--|---------------|---|---|---|------|
| | Low | | | | High |
| a. Variety of issues covered | 1 | 2 | 3 | 4 | 5 |
| b. Credibility of information | 1 | 2 | 3 | 4 | 5 |
| c. Usefulness in keeping you informed about U of G | 1 | 2 | 3 | 4 | 5 |
| d. Balance of views on issues | 1 | 2 | 3 | 4 | 5 |
| e. Appearance | 1 | 2 | 3 | 4 | 5 |
| f. Photography | 1 | 2 | 3 | 4 | 5 |
| g. Writing style | 1 | 2 | 3 | 4 | 5 |
| h. Enjoyability | 1 | 2 | 3 | 4 | 5 |

6. Does *At Guelph* provide a forum for expressing varying points of view?

- a. Yes ☐
 b. No ☐
 c. Not sure ☐

If no, what changes would you suggest?

7. If *At Guelph* were able to carry more University-wide and departmental notices, flyers and posters, would you make use of it for these purposes, instead of relying on separate mailings and distribution?

- a. Yes ☐
 b. No ☐
 c. Not sure ☐

8. Should off-campus readers be able to place paid personal classified advertisements in *At Guelph*?

- a. Yes ☐
 b. No ☐
 c. Not sure ☐

9. Do you access *At Guelph* electronically on GRIFF?

- a. Every week ☐
 b. Once a month ☐
 c. Less than once a month ☐
 d. Never heard of GRIFF ☐

10. Do you read *At Guelph* headlines on the University Centre video system?

- a. Every week ☐
 b. Once a month ☐
 c. Less than once a month ☐
 d. Unaware these were on the system ☐

11. Check as many as apply. I am currently:

- a. Faculty member ☐
 b. Staff member ☐
 c. Undergraduate student ☐
 d. Graduate student ☐
 e. Retiree ☐
 f. Alumnus ☐
 g. Other (please specify) ☐

12. How do you receive *At Guelph*?

- a. Delivered personally by department staff ☐
 b. Picked up at department mailbox ☐
 c. Picked up at on-campus drop-off spot ☐
 d. Other (please specify) ☐

13. Please add any other comments you wish to make.

Thank you for your participation. If you have any questions, call Sandra Webster at Ext. 3864. Watch for the results of this survey in a future issue of *At Guelph*.

Send this form to *At Guelph* Readership Survey, University Communications, Level 4, University Centre, by Feb. 21.

Name

Department/address

Telephone number: Work: Home:

Note: Anonymous responses are welcome, but you must fill out this form if you wish to enter the draw.

AT GUELPH

Volume 38 No. 6 Established in 1956

University of Guelph, Guelph, Ontario February 16, 1994

FIRST GLANCE

The World at Guelph

Scores of our faculty, staff and students are involved in the international life of the University. Active in international studies, research, development projects, consulting and publications, they are carrying on a tradition that is deeply rooted at U of G.

The Centre for International Programs (CIP) and *At Guelph* have joined forces to provide information about these activities in a monthly international perspective page, which we're launching this week on page 5.

This section will highlight international projects, study abroad, research and teaching. We want to hear from faculty, staff and students on the road through letters and photos. We want to hear from international students on campus who are adjusting to living and learning at U of G. We especially welcome commentary pieces on issues that are relevant to U of G's international community.

Send your ideas and information to Bonnie Spall at CIP, Ext. 3958, fax 767-0756, e-mail bspall, who is compiling the material for the *At Guelph* page, or send them directly to *At Guelph*.

Just a reminder

If you haven't sent in your *At Guelph* readership survey yet, now's the time to do it. To be eligible for our draw, surveys must reach us by Feb. 21.

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Thought for the week

I don't want to achieve immortality through my work. I want to achieve it through not dying.

Woody Allen

Re-Discover
DOWNTOWN GUELPH



She shoots to conquer

Hard skating and heads-up play have put Gryphon Cassie Campbell on the women's national hockey team. In her second year on the Gryphon blue line, she's honing her skills for a shot at the 1998 Olympics. See story, page 8.

Photo by Maurice Oishi

Stop paper chase, campus tells WIN

by Maurice Oishi
University Communications

Curbing the University's appetite for paper requires more efficient ways of communicating. That's one of the major themes that keeps surfacing in campus suggestions to the Waste and Inefficiency (WIN) Committee.

Although community suggestions to the committee have been wide-ranging, wasteful use of paper, particularly through bulk mailings, is one of the most common issues raised, says WIN Committee member Doug Blain, manager of Computing Centre Services. More than a quarter of respondents recommended better ways of communicating with less paper.

"Judging by the number of responses we've received on this issue, the use of bulk mailings is going to change," says Blain, whose unit generates many of the labels used for bulk mailings.

He budgets \$17,000 to produce the 1.5 million labels used by campus departments and units annually. Factor in the cost of envelopes and paper, and the mailing of brochures, announcements and flyers costs the University at least \$150,000 a year, he says.

A 1992 report from the Committee on Campus Information Distribution made suggestions on how to reduce the amount of bulk mail, says Blain, and WIN will likely expand on those proposals.

One common suggestion has been to expand the use of electronic mail on campus. (Of the 40 responses received by the committee, 15 arrived by e-mail.) Such an approach is feasible with current technology, he says, but it would require creating and maintaining a master mailing list. Currently, some 8,000 people have access to the campus central mail application, and local-area computer networks provide another 5,000 e-mail accounts.

Although other technical considerations must be addressed, getting the message out might be done through alternative media, says Blain. "If it's something that has to go out to everybody, I'd rather it go out over GRIFF" (the on-line campus information service).

Another approach would in-

volve using *At Guelph* to distribute information, he says. By expanding the array of information published in the newspaper, the campus would capitalize on low newsprint costs and *At Guelph's* established distribution network. This approach would meet the needs of those who are not wired into a network or who prefer the portability of a newspaper, he says.

Blain expects his subcommittee to propose a stop to bulk mailings. Information of a legal or contractual nature will still be sent out as printed copy, he says, but "clearly people are bothered by mass mailings, and until they have been thoroughly reviewed, it's probably best to put a moratorium on them."

As a next step, the subcommittee will recommend a campus-wide audit of all publications and written materials, says WIN Committee co-ordinator Nancy Clendenning of the office of the associate academic vice-president. A thorough survey would give U of G a comprehensive inventory of campus publications and allow the University to evaluate the need for these materials, she says.

Putting the emphasis on electronic media, particularly GRIFF, will require new thinking, says Blain. Instead of rifling through their mailbox, members of the University community will have to turn on their computer.

"It's a cultural change," he says. "Rather than having the news beat the door down, you have to go get it. It's a matter of discipline."

Increasing the efficiency of existing means of communication has other implications. Making the phone system more cost effective has been suggested by some respondents. They've asked the University to investigate alternative long-distance carriers and to increase the accessibility of phone lines capable of accommodating fax machines.

"We really walk a tightrope between quality service and reasonable rates," says Garry Tatum, manager of Telecommunications. Although resellers of long-distance service offer rates competitive with Bell Canada, they often come at the

See BULK on page 2

Storm policy under review

U of G's inclement weather/emergency procedures policy is being re-examined.

One of the coldest winters on record and the accompanying snowstorms that produced hazardous road conditions have prompted Executive Group to take a second look at the policy.

Roger Jenkins, director of Physical Resources, recommended the policy be re-examined. He plans to meet this week with Jane Watt, assistant vice-president for human resources, and Prof. Iain Campbell, acting academic vice-president, to review the guidelines.

The policy, number 512 in the human resources manual, says U of G is to remain open and in full operation at all times. Under severe weather conditions or in

the case of an emergency, the president may decide to restrict operations or, under the most severe circumstances, to close the University except for essential services.

Jenkins says one of the issues Executive Group must address is the importance of making the distinction between cancelling classes, which may be feasible, and closing the University, which is practically impossible, given the need to service and feed a large resident student population and to keep buildings heated and serviced.

U of G has closed only twice in the last 25 years because of bad weather. Some evening classes have been cancelled, and departments have also cancelled individual classes. □

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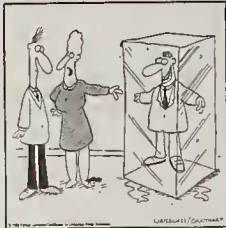


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Bulk lines cut costs on long distance

Continued from page 1

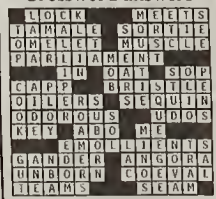
expense of service, he says. In addition, the University's recently installed bulk-use FONOROLA lines already provide discount long-distance rates. Tatum says these lines will save U of G an estimated \$50,000 a year. Even before their implementation, the University had realized savings of between 20 and 35 per cent on long-distance calls, he says.

"I don't think we could have a better network," says Tatum. "We're constantly reviewing our system and we're already squeezing our dollar really tightly." Telecommunications is also investigating implementing pass-words to avoid long-distance phone abuse.

As for improving access to fax lines, the existing network could accommodate their increased use, he says. It would, however, require departments to spend more money, an option that may be hard to justify.

The WIN Committee was established last year in the wake of the government-imposed social contract. The committee is seeking ways to reduce waste and improve the working environment at the University. □

Crossword answers



Internal search under way for three deans

An on-campus search is under way for new deans for the College of Biological Science, OVC and FACS, says Prof. Iain Campbell, acting academic vice-president. CBS Dean Bruce Sells and FACS Dean Richard Barham complete their second terms in June. OVC Dean Ole Nielsen completes his term in April.

Campbell, who will chair each of the search committees, says the decision to conduct internal searches was made in light of the University's strategic-planning exercise. The Strategic-Planning Commission (SPC) may examine new department/college alignments, as recommended last year by the Academic-Restructuring Committee, he says.

But the commission's timetable doesn't match the five-year term specified for deans in the faculty policy, says Campbell. If the three new deans were hired for irrevocable five-year terms, this would deny the commission flexibility and detract from the credibility of the planning exercise, he says.

Campbell sought advice from the Joint Faculty Policies Committee, the Vice-President, Academic's Council, the director of employment and educational equity and other colleagues before recommending to President Mordechai Rozanski that there be recourse to a clause in the faculty policy that says deans serve at the president's discretion.

Each appointment will be for five years if the college concerned continues in its present form, says Campbell. But if a college undergoes restructuring as a result of SPC's recommendations, there is

a range of possibilities — from redefinition of the dean's responsibilities to elimination of the position.

"This arrangement is the best way we could find to deal with the current situation — for which there are no precedents — and to treat each college equally," he says.

"The easiest way would have been to appoint three acting deans, but the colleges need effective leadership now and in the crucial months ahead. They must not be disadvantaged relative to the others. This ensures that they have real deans — with clout — as opposed to acting ones. It also provides the Strategic-Planning Commission with the necessary flexibility and is consistent with our faculty policies as regards the defined five-year term."

This strategy is also consistent with the current "deep chill" on faculty hiring and is a fiscally responsible approach during the period of the social contract, he adds.

"Until the University deals with its structural fiscal problems, business will not be as usual."

Campbell says he's confident that new leadership will come forward in the colleges. "There are many success stories among our own people." He says it's "vitally important" that the incumbents be knowledgeable about the University and sensitive to the issues involved in strategic planning and possibly restructuring.

Members of the CBS search committee are: Prof. Terry Beveridge, Microbiology; Prof. Bruce Holub, Nutritional Sciences; Prof. Sandy Middleton, Zool-

ogy; Prof. Frances Sharom, Chemistry and Biochemistry; Prof. Larry Milligan, vice-president for research; graduate student Jennifer Griffin; and undergraduate Brendon Larson.

The FACS committee consists of Prof. Tom Powers, HAFAs; Prof. Richard Vosburgh, Consumer Studies; Prof. Joseph Tindale, Family Studies; Prof. Laura Nagy, Nutritional Sciences; CSS Dean David Knight; Prof. Doug Ormrod, dean of graduate studies; graduate student Stephanie Ounpuu; and under-

graduate Steve Cracknell.

Members of the OVC committee are Prof. Ian Barker, Pathology; Prof. John Baird, Clinical Studies; Prof. Brian Derbyshire, Veterinary Microbiology and Immunology; Prof. Ann Gibbins, Animal and Poultry Science; OAC Dean Rob McLaughlin; Milligan; graduate student Dawn Kelk; and undergraduate Natalie Trisch.

The deadline for nominations and applications for the positions is March 1. □

Dean

College of Biological Science

Applications and written nominations are invited for the position of dean of CBS, which becomes vacant July 1, 1994. Candidates must be tenured faculty of U of G.

CBS comprises five departments — Botany, Microbiology, Molecular Biology and Genetics, Nutritional Sciences and Zoology — and the School of Human Biology. College personnel include 90 faculty and 235 staff. There are 250 graduate students and 50 postdoctoral fellows. The college's undergraduate teaching serves several degree programs, the B.Sc. being the principal one. There are 15,000 course enrolments a year.

Candidates should have a proven record of leadership and achievement in education, research and administration. In addition to leading the college, the dean has substantial cross-campus

academic administrative responsibilities. The dean will play an integral role in U of G's strategic-planning exercise. S/he must be a highly credible representative of the college and the University in maintaining and developing interactions with external agencies.

Faculty policies define the standard decennial term as five years. This term, and the current range of responsibilities, could be altered at the president's discretion should the strategic-planning exercise result in restructuring of academic units.

Applications and nominations should be directed to the vice-president, academic, on Level 4 of the University Centre by March 1. The University is committed to the principles of employment equity.

Dean

Ontario Veterinary College

Applications and written nominations are invited for the position of dean of OVC, which becomes vacant May 1, 1994. Candidates must be tenured faculty of U of G.

OVC comprises five departments — Biomedical Sciences, Clinical Studies, Pathology, Population Medicine, and Veterinary Microbiology and Immunology — plus the Veterinary Teaching Hospital. College personnel include 110 faculty and 250 staff. There are 140 graduate students, 100 students in pre-vet and 400 in the DVM program. OVC's undergraduate courses contribute to other degree programs and attract 7,700 enrolments a year.

Candidates should have advanced qualifications and a proven record of leadership and achievement in education, research and administration. The AVMA accreditation policy requires that the dean be a

veterinarian.

In addition to leading OVC, the dean has substantial cross-campus academic administrative responsibilities. The dean will play an integral role in U of G's strategic-planning exercise. S/he must be a highly credible representative of the college and the University in maintaining and developing interactions with external agencies.

Faculty policies define the standard decennial term as five years. This term, and the current range of responsibilities, could be altered at the president's discretion should the strategic-planning exercise result in restructuring of academic units.

Applications and nominations should be directed to the vice-president, academic, on Level 4 of the University Centre by March 1. The University is committed to the principles of employment equity.

Dean College of Family and Consumer Studies

Applications and written nominations are invited for the position of dean of FACS, which becomes vacant July 1, 1994. Candidates must be tenured faculty of U of G.

FACS comprises two departments — Consumer Studies and Family Studies — and the School of Hotel and Food Administration. College personnel include 56 faculty and 29 staff, and there are 100 graduate students. The college's undergraduate teaching is centred in the B.A.Sc. and B.Comm. programs and attracts 14,600 course enrolments a year.

Candidates should have a proven record of leadership and achievement in education, research and administration. In addition to leading the college, the dean has substantial cross-campus academic administrative

responsibilities. The dean will play an integral role in U of G's strategic-planning exercise. S/he must be a highly credible representative of the college and the University in maintaining and developing interactions with external agencies.

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Bruce Anderson confers with his staff, Cathy Hood, left, and Rosemarie McHugh.
Photo by Maurice Oishi, University Communications

Creativity, flexibility key for new employee relations manager

Bruce Anderson comes prepared for his new job. One of the qualities outlined in the advertisement for U of G's new manager of employee relations was "a positive attitude."

A fresh, flexible attitude is something Anderson considers one of his assets. He recalls how four years ago he and his colleagues at Edmonton Power were reading a job posting in the *Globe and Mail* for a personnel manager with the Bermuda government. On that bleak February day, they joked about who would take the job. "I applied, I got the job and I went," he says.

It was no flip decision — the job offered new responsibilities and challenges during its three-year contract. But having a chance to live overlooking the ocean definitely helped the decision along, he says.

Anderson, who succeeds Stu Brennan, holds a bachelor of commerce from the University of Alberta and an MA in labor and industrial relations from the University of Illinois at Urbana-Champaign. Before heading to Bermuda, he held a variety of

positions with a public utility, an aviation repair firm and the Alberta government. Together, these jobs have provided him with experience in employee and labor relations, recruitment, compensation, training and safety.

Anderson's job on the fifth floor of the University Centre in Human Resources presents him with new challenges. He says his role is to provide a communications conduit between employees and management — avoiding needless antagonism — and to act as a trouble-shooter.

Accomplishing this requires creativity and flexibility, he says. "In going from A to B, it doesn't matter how you get there, as long as the work gets done in a productive way. What works in one department isn't always going to work in another."

"If there's anything this job is here to define, it's solutions. And I've always prided myself on having very good rapport with employees, unions, bargaining associations and managers. Everybody has to buy into the decisions that are made." □

Staff-development courses still have winter openings

There are still openings for some of the winter staff-development seminars being offered by Human Resources. They are available to all full-time staff, including those who are on contract for at least six months.

Some courses in the areas of environmental health and safety and wellness are also open to graduate students and part-time staff.

Some of the programs that still have openings are "Building Effective Work Teams" April 19,

"Effective Media Relations" April 27, "The Manager as Coach" March 2, "Recognizing Violence in the Workplace" March 3, laboratory animal methodology workshops and various seminars on environmental health and safety and wellness.

To register for a course, check the staff-development brochure for the appropriate phone number. For a brochure, call Margaret Middleton at Ext. 6800 or Karen Kovats at Ext. 6495. □

Bulk buying reaps big savings

by Maurice Oishi
University Communications

U of G has long known what warehouse-store shoppers are learning — bulk buying means steep discounts.

Already the largest buyer of goods in the area, the University has pooled its purchasing dollars with other public institutions for more than a decade. Through these co-operative ties, Guelph buys everything from garbage bags to water softening salt, from fine paper to french fries — all at large-volume discounts. And the list of co-operative ventures may soon expand to include a growing number of services.

Central Purchasing, which has cultivated many of these ties, funnels \$1.5 million of the \$44 million it manages into co-operative purchases, says manager Don Dyson. U of G is currently a member of eight co-ops, ranging from local to national.

Biggest player

The most active of these from the University's point of view is the Guelph Co-operative Purchasing Group, which consists of mostly publicly funded institutions in Wellington County. "For the most part, we're the biggest player in the co-op in terms of purchases," says Dyson. Some 60 per cent of the co-op's purchases are for U of G.

Joint purchases routinely save members between five and 50 per cent, he says. Smaller institutions, riding on the clout of larger members, realize the biggest discounts. Institutions such as U of G, which are already large enough to garner deep discounts, don't see such vast price cuts.

There are no exact dollar figures on the total savings, says Dyson, but even a five-per-cent discount on the University's large purchases — such as the \$450,000 a year it spends on fine paper — results in significant savings.

He views the co-op as more of a network than a formalized institution. Individual members are at liberty to form joint ventures with others to increase their buying leverage. Deals sealed with a phone call can cover everything from a one-time spot purchase to a year-long "systems" contract for such things as stationery needs.

This flexibility and co-operative thinking may extend into the service side of the University as well. The Waste and Inefficiency (WIN) Committee has received suggestions to forge greater links in the community, some of which are being considered.

Initiatives spearheaded by members of the Wellington County Public-Sector Consortium, for example, could result in shared resources and streamlined facilities. One idea currently on the table would see a laundry facility shared by U of G and other county institutions. Another possibility is sharing staff-development and training resources.

These efforts will expand on already existing co-

operative ventures, such as shared training programs between campus and city police and collaboration between the campus fire department and Royal City Ambulance Service.

The success of any joint venture may have its limits — bigger doesn't always mean better. In the purchasing area, the larger the venture, the larger the geographic area, says Dyson. "The difference there is when you get into freight rates — they can outweigh any other advantage."

But the same doesn't necessarily apply to food services. National brands with their own distribution networks allow campuses nationwide to cut deals for popular products, says Wayne Brittenden, senior buyer in Hospitality and Retail Services.

The 13-member Canadian College and University Food Service Association Co-operative Purchasing Group, for example, recently agreed to buy two million pounds of french fries from McCain's. A lower price and a guaranteed supply of fries, regardless of this year's harvest, are two of the advantages for members.

Another advantage is that two price increases that were put into effect since the deal was struck won't affect the University because of a price-protection clause, says Brittenden. "Within the group, we've actually had a savings of \$100,000 without buying any product."

Similar deals by an eight-member Ontario group of colleges and universities cover dairy, bakery and confectionary products, dry and frozen foods, disposable paper and vending machine services.

One peril of co-operative buying, says Dyson and Brittenden, is that it could squeeze smaller distributors and manufacturers from the market as large-shouldered companies slash prices to cut big deals.

But cost isn't the sole criterion. "The thing is that you have to come up with the right product at the right price at the right time," says Brittenden.

Working together

In the hospitality industry, institutional buyers and food wholesalers have to cultivate a co-operative approach to business, catering product availability to the demands of the consumer, he says. "You're working together for the long term."

Another check and balance is the government requirement that contracts between private and public sectors have to be tendered every two to four years, he says. This ensures fairness among all suppliers.

Brittenden is excited about the further options that will open up for purchasers when the North American Free Trade Agreement and the General Agreement on Tariffs and Trade come into effect. He believes they will further fan the fires of co-operative buying.

"The key thing is the opportunity of the individual to share ideas with others in the co-op," he says. "The people are what make it go." □

TSS marks merger with open house

Now under one roof, Teaching Support Services (TSS) invites everyone to visit its new facilities in Day Hall Feb. 25 from 1 to 4 p.m.

Originally housed in Day and Blackwood halls and Raithby House, the consolidated TSS will benefit from eased communications and provide a wider range of resources to instructors on campus, says teaching support co-ordinator Prof. Ron Stoltz, Landscape Architecture.

One improvement is the creation of a teaching resource centre on the first floor of Day Hall. "It's intended to be a casual and inviting area for instructors to come and talk or use the resources," says Stoltz. "It's intended to help change the culture on campus surrounding teaching."

The resource centre houses teaching- and learning-related materials, as well as computer terminals for those interested in

learning about options in computer-aided learning. A conference room is also available for meetings related to teaching and learning.

The centre is also home to the teaching advisory group — Stoltz, fellow teaching support co-ordinator Prof. Tom Carey, Computing and Information Science, and staff associate Mei-Fei Elrick.

Classroom Technical Services, which provides classroom equipment and support, remains in its facilities on the first floor. Instructional Support, which provides design and production facilities for computer-aided learning, videos, course manuals, and other teaching materials, is on the second floor. It was formerly housed in Blackwood Hall.

The move marks the first time TSS services have ever been located together. "We spent a lot of time walking between build-

ings," says associate director Les Richards.

Bringing resources together should lead to a better exchange of ideas between the members of TSS, he says. Communications have already been eased by the addition of a local-area computer network.

The consolidation of services enables TSS to better meet the needs of instructors, says Carey. "We need to send a clear message that technical developments must be linked to instructional development."

Technology is simply a resource that must be melded with ideas and concepts, driven by effective instructional design, he says. "If you're focusing on technology, you're only thinking about efficiency, but if you're focusing on good instructional design, you're thinking about its effectiveness for students." □

OMAF offers \$800,000 to reduce pesticide use

A popular provincially supported research program designed to halve pesticide use in Ontario in the next 15 years is back in the spotlight.

The Food Systems 2002 Pest-Management Research Program, sponsored by the Ontario Ministry of Agriculture and Food (OMAF), is a central part of the province's drive towards competitive agricultural production and environmental sustainability. To that end, OMAF has announced \$800,000 is becoming available for research under the Food Systems 2002 umbrella.

The deadline for applications, to be submitted through the Office of Research, is Feb. 23.

Funding is being provided for both short- and long-term projects. About a dozen short-term projects with a ceiling of \$15,000 each will be supported from April 1, 1994, to March 31, 1995. Longer-term awards of two to three years will range from \$20,000 to \$30,000 a year, with an annual ceiling of \$50,000.

The Pest-Management Research and Services Committee, composed of representatives from industry, U of G, OMAF and Agriculture and Agri-Food

Canada, has identified various research needs to be addressed by Food Systems 2002. These include non-chemical alternatives, resistance management programs, new technologies and sprayer application technologies.

U of G's first Food Systems 2002 awards were granted in 1989. Faculty receiving support include Profs. Mark Sears and Greg Boland, Environmental Biology; Prof. Clarence Swanton, Crop Science; and Prof. Peter Stonehouse, Agricultural Economics and Business.

"Industry and the University of Guelph have been with us all the way on this project, and we've seen quite a number of comments from producer organizations praising the various research projects," says Ken Boyd, general manager of OMAF research programs. "I'm very optimistic about the future of Food Systems 2002. I'm confident that we'll continue to maintain this success in the decade to come."

For more information about the program, call Barbara Leachman at Ext. 8761. □

SCID mouse house has rooms to let

by Margaret Boyd
University Communications

A special rack used to house severe combined immunodeficient (SCID) beige mice at U of G is looking for more tenants.

The \$58,600 rack, specially designed for disease-challenge experiments in mice, is the first of its kind in Canada. It's not being used as much as it could, so the University is looking for researchers on and off campus who could use the rack to do experiments with the mice.

"A lot of people don't know this facility exists," says Prof. Anne Croy, Biomedical Sciences, who was instrumental in developing a colony of SCID beige mice on campus.

Versatile subjects

The animals are versatile research subjects. They're used to produce monoclonal antibodies via ascites (fluid in the abdomen) because they have no indigenous mouse immunoglobulin. They're also used to study tumor metastasis from other species and other tissue grafts.

The SCID beige mouse colony at Guelph has been used to study John's disease in cattle, pneumonia in horses and cattle, a rat virus and several mouse pathogens.

"Having a small rodent model that is a genetically identical group provides a very advanced system that tissue culture hasn't achieved," Croy says.

Croy, a reproductive immunologist, developed the SCID beige mouse colony in 1988 as a cross between a SCID mouse and a mouse with a deficiency in a different lymphocyte known as



Research technician Barbara Mitchell inspects one of the micro-isolator cages that house the University's SCID beige mice.

Photo by Margaret Boyd, University Communications

NK. Now the University sells SCID beige mice to researchers around the world. Croy was the first to prove this cross had normal fertility. It had been hypothesized that there had to be immune recognition of the fetus to promote pregnancy success.

The rack was purchased in 1992 with an equipment grant awarded to 14 faculty by the Natural Sciences and Engineering Research Council (NSERC). The rack provides sterile housing for 98 micro-isolator cages, each of which has its own air filter.

NSERC also provided a two-year infrastructure grant to support technical aspects until the

University evolves to a full user-pay system this May.

Research technician Barbara Mitchell oversees the rigorous containment of the mice and the rack. The exacting procedure used to handle the mice requires autoclaving of all items entering the three rooms where they are housed, as well as masking, gowning and gloving of all people entering the rack room. Only Mitchell is allowed to handle the mice in the rooms used for breeding and stock.

The rack itself is hepafiltered, with incoming air filtered against solid particles and infectious agents. Air leaving the cages is sucked up by a negative turbo, trapping the exhaust air and passing it through another hepafilter before it is released.

"The mice will not survive without rigorous barrier housing," says Croy.

Great care must be taken to ensure the colony remains pure. The rodents are surveyed every four months with gross postmortems. Immunocompetent animals in the colony are bred and killed twice a year to look for antibodies to any antigens. In addition, any animals that die incidentally are given a full postmortem.

Previous technology to house immune-deficient mice was inadequate, says Croy. It dated back to the 1950s and was intended for housing pigs and rabbits. □

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THE WORLD AT GUELPH

Siberian herders provide clues to health

by Kerith Waddington
Office of Research

A diet rich in meat doesn't necessarily lead to high blood cholesterol, say U of G researchers.

Working with scientists from the United States and Russia, human biology professor William Leonard and graduate student Peter Katzarzyk have found that Siberia's indigenous Evenki reindeer herders in remote, labor-intensive communities have low blood cholesterol even though they eat about two and a half times the meat that the average North American does.

After examining the Evenki's ecology, health and genetic diversity, the researchers believe a number of factors are responsible for their low cholesterol levels. They are:

- high energy demands associated with their hard-working lifestyle;
- elevated metabolism, thought to be a physiological adaptation to the cold stress of high-latitude ecosystems; and
- their consumption of lean meat, primarily reindeer.

"Contrary to our perception in the western world, a high meat diet does not pose health risks to the Evenki or other traditional societies that consume high meat diets," says Leonard.

Nomadic hunters

Evenki settlements are scattered across the northern boreal forest of central Siberia. Although their biological and cultural origins are unknown, it's believed they were once nomadic reindeer hunters who, over time, began breeding and herding domesticated reindeer as a means of subsistence.

Traditionally organized into units based on extended family lines, the Evenki were reorganized during Stalinist times into the present-day co-operative settlements and herder groups known as brigades.

The Evenki's isolation (they are located about 1,000 kilometres north of Moscow) makes them a unique population to study. It was while examining their subsistence ecology and biological adaptations that researchers acquired new evidence linking exercise — in this case, the constant labor that's part of animal herding — with low cholesterol level.

The researchers found that animal products make up 35 to 40 per cent of Evenki energy intake during the summer and even more over the winter when the weather forces their access to other food sources such as foraging and helicopter delivery of market foods.



Graduate student Peter Katzarzyk rides a pack reindeer in the central Siberia region of Tunguska, where he is studying Evenki herders.

Photo by William Leonard

Despite this, the Evenki have low blood cholesterol levels, compared with western populations. In the United States, cholesterol levels reach an average of 176 milligrams per decilitre for people in their late 20s and climb to the mid-220s for people in their late 60s. In contrast, Evenki cholesterol levels average 141 mg/dL for males and 148 mg/dL for females and show no age-related increase. In addition, the proportion of high-density lipoproteins (HDL or "good" cholesterol) is more favorable than that generally found in western populations.

The researchers' theory is underlined by comparing the cholesterol levels of hard-working rural Evenki with those of the more sedentary village-dwelling Evenki who are becoming increasingly commonplace — 135 mg/dL versus 156 for males, 142 mg/dL versus 151 for females.

Given that village residents eat far less meat — particularly reindeer meat — than the more traditional Evenki, this trend is significant, says Leonard. "Meat consumption per se does not appear to be a strong predictor of cholesterol levels within the Evenki. Rather, lifestyle changes such as reduced activity may be the most important influence."

This is most evident in Evenki women. With lower resting metabolic rates (the minimum amount of energy required to sustain life) than men, Evenki women entering

adulthood tend to begin storing fat around their mid-sections as a further adaptation to cold stress. When added to the decline in activity since collectivization, the health risks associated with this tendency increase.

In the western world, excess fat and decreased activity have been associated with greater risk of cardiovascular disease, hypertension and gall bladder problems. "This adaptive tendency, in the face of further acculturation, may eventually have serious consequences for Evenki women," says Leonard.

In addition, Evenki women increase in body weight and fat with age, a tendency not seen in other traditional societies. According to the researchers, this may partly reflect changes in fertility and breast-feeding patterns, which result in lower metabolic costs associated with reproduction.

Further research will focus on establishing disease potentials, studying seasonal food fluctuations and making good comparisons between rural and village-dwelling Evenki. Leonard and Katzarzyk will continue their work with the help of Michael Crawford of the University of Kansas and Rem Sukernik of the Russian Academy of Science. This project is supported by the Natural Sciences and Engineering Research Council, the U.S. National Science Foundation and the U.S. Man in the Biosphere Program. □

Seven receive support for research abroad

Seven students have received funding in the latest round of competition for international field-study grants.

Family studies PhD student Carolyn MacDonald is spending a year in Malawi studying the effects of low zinc levels in infants. Human biology PhD student Peter Berti is in Ecuador studying how the drinking water affects the health of Andean farmers. Zoology PhD student John Wilmshurst is in Tanzania looking at aggregation by Serengeti herbivores.

Field-study grants were awarded to two undergraduate

landscape architecture students. Sara O'Bright travelled to Indonesia and Southeast Asia in the fall to look at Balinese rice terracing and eco-tourism. Randolph Watpool visited the Netherlands and Germany this winter to do research on town planning.

Two B.Sc. students in the Department of Chemistry and Biochemistry also received funding. Michele Zwickler will travel to France in the fall to do work on syntheses of molybdenum compounds. Michelle Lem is in Kenya doing research in immunobiology. □

Postcards from the road

Prof. Frank Hurnik, Animal and Poultry Science, travelled to the Czech Republic in December to give talks at the Agricultural University of Prague on "Farm Animal Welfare and Ethical Issues of Animal Agriculture."

Prof. Steven Cronshaw, Psychology, spent two weeks at the University of Akureyri in Iceland on a NATO grant. While there, he gave two lectures and taught classes in the total quality management program. He also met with the president of the university and department heads to discuss future links with U of G, particularly in the areas of organizational theory and fisheries studies.

Prof. Vince Souza-Machado, Horticultural Science, and Jana Janakiram, Rural Extension Studies, supervised the annual international agriculture field trip, which went to Mexico for the first time.

Prof. Jim Shute, director of the Centre for International Programs, and Wout vanden Bor of Wageningen Agricultural University presented a paper on Guelph-Wageningen co-operation with

developing-country universities at the annual conference of the European Association for International Education in The Hague. Shute also spoke at the Biennial Conference of the American Association of Canadian Studies in New Orleans on the internationalization of Canadian universities.

Daniel Sellen, a PhD candidate in the Department of Agricultural Economics and Business, is in Cote d'Ivoire and Uganda this month teaching short courses in agricultural policy analysis with the World Bank. He has taught similar courses in Kenya and Zimbabwe. □

Lecture published

The 1993 Hopper Lecture on International Development has now been published. Vandana Shiva's talk on "Monocultures of the Mind: Threats to Biological and Cultural Diversity" is available from the Centre for International Programs, Ext. 3958 or 6904. □

African studies funded

The Rockefeller Foundation offers African dissertation internship awards for doctoral students from sub-Saharan Africa who are enrolled at Canadian and U.S. universities.

The awards allow students to return to Africa for extensive research involving field observation or use of primary sources available only in Africa.

Priority goes to research in the areas of agriculture, health, life sciences, environment and education.

Application deadline is March 1. For more information, write to: African Dissertation Internship Awards, The Rockefeller Foundation, 1133 Avenue of the Americas, New York, N.Y. 10036. □

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NOTICES

Deadline nears

Feb. 28 is the deadline to submit nominations for honorary degrees. Nominations and suggestions are invited from members of Senate, faculty, staff, students and alumni. For more information, call the Senate Office at Ext. 6758.

Engineers compete

The School of Engineering is hosting the 1994 Ontario Engineering Competition Feb. 18 to 20. Engineering students from across Ontario will compete in the areas of entrepreneurial design, corporate design, editorial communications, explanatory communications and parliamentary debate. Displays will be set up in Peter Clark Hall and across campus. At an awards banquet Feb. 19 at the Holiday Inn, guest speaker will be Xerox Canada vice-president Claudette MacKay-Lassonde.

University women meet

Prof. Ken Graham, English, will be guest speaker at the Feb. 22 meeting of the Guelph chapter of the Canadian Federation of University Women. Graham will discuss the use of videotapes in teaching literature. The meeting begins at 7:30 p.m. at the Steelworkers' Centre on Dawson Road.

GYO performs

The Guelph Youth Orchestra will give a concert Feb. 27 at 3 p.m. at War Memorial Hall. Conducted by Henry Janzen, the orchestra will perform works by Mozart, Thomas and Shostakovich and a premiere piece called *Occasion* by Jack Belhrens. Tickets at the door are \$6 general, \$4 for students and seniors and \$15 for families. For more information, call 836-4466.

On stage

Bethune, a play by Rod Langley chronicling the life of Dr. Norman Bethune, open at the Elora Community Theatre in Fergus Feb. 17 and runs to March 5. Curtain time is 8 p.m. For ticket information, call 846-5567.

Swedish grad program

Stockholm University offers a multidisciplinary postgraduate program in the social sciences. Application deadline is April 1. For details, visit International Education Services on UC Level 4.

Designs on display

An exhibit of winning entries to a recent design competition for Charlottetown's Confederation Birthplace Commemorative Park, sponsored by the Charlottetown Area Development Corporation,

are on display in the faculty wing of the School of Landscape Architecture until Feb. 25.

First winners

First interim winners in Hospitality and Retail Services' "Fun in the Sun" contest are Penny Cinkant of FACS; Bram Cadsby, Economics; Susan Vercruysse, Registrar's Office; Glenn Lumis, Horticultural Science; and Lis Pieper, Veterinary Teaching Hospital.

Take a break

Guelph Museums will run a March break program for children aged five to 10 March 14 to 18. It runs from 9:15 to 11:45 a.m. at Guelph Civic Museum and 1 to 3 p.m. at McCrae House. McCrae House will also run a morning program March 22 to 24. Cost is \$33 per session. Register at 836-1221 for the museum and 836-1482 for McCrae House. □

JOBS

As of Feb. 11, the following opportunities were available to on-campus employees only:

Bequests and Planned Giving Assistant, University Affairs and Development. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Co-ordinator's Assistant, Independent Study, OAC. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Custodian 3, Housekeeping. Job rate: \$13.70 per hour. Probation rate: 20 cents lower than job rate.

To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

NSERC workshop set

The office of the vice-president for research is sponsoring a workshop on the Natural Sciences and Engineering Research Council's strategic grants program Feb. 23 at 3:10 p.m. in Room 103 of the University Centre.

The workshop will provide information to potential applicants on how this program differs from the regular research grants program and how to prepare proposals to increase chances of success.

success.

The panel will consist of Prof. Brian Derbyshire, Veterinary Microbiology and Immunology, who recently served as chair of NSERC's biotechnology review panel; and Prof. Jack Trevors, Environmental Biology, whose team captured a grant in last year's competition.

Faculty considering an application for the April 15 competition are urged to attend. □

GRAD NEWS

The final PhD oral examination of Paula Chidwick, Department of Philosophy, is Feb. 18 at 2 p.m. in Room 132 of the MacKinnon Building. The thesis is "Approaches to Clinical Ethical Decision Making: Ethical Theory, Casuistry and Consultation." Her adviser is Prof. Carole Stewart.

The final oral examination of Elisabeth Cloutier, an M.Sc. candidate in the division of family relations and human development in the Department of Family Studies, is Feb. 24 at 1:30 p.m. in the Marriage and Family Therapy

Centre. Title of the thesis is "Socialization in the Adult Family: Conversational Patterns of Intergenerational Influence." Her adviser is Prof. Marshall Fine.

The final oral examination of Hana Weingartl, a PhD candidate in the Department of Veterinary Microbiology and Immunology, is Feb. 25 at 9 a.m. in Room 101 of VMI. Title of the thesis is "Receptors for Transmissible Gastroenteritis Virus on Porcine Enterocytes." Her adviser is Prof. Brian Derbyshire. □

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Three-bedroom bungalow, old University area, finished basement, two baths, large lot, Jill, 836-1383 weekdays from 9 a.m. to 2 p.m. and weekends.

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THANK YOU

To Brian Sullivan, Janet McLean, Prof. Mary Rubio and Prof. Terry Crowley, thank you for your support and compassion during my recent crisis.

Leanne Goodall

STUDENT HOUSING SERVICES We Need Your Help!!

Student Housing Services is presently reviewing the placement of students and student groups to residence facilities (e.g., Living Learning Centres, Co-ed and Single Sex space, Theme Houses, etc.). This is due in part to the changing demographic trends of students attending the University as well as University initiatives to enhance the learning experiences of students living in residence.

We need your help in developing working principles which will guide us in our decisions. If you have any thoughts or suggestions on how residence space should be assigned, please submit, in writing by Feb. 22, 1994, your comments to Julie West, Student Housing Services, Maritime Hall. If you have any questions, please contact Julie at Ext. 2349.

There will be a half-day workshop on February 23 to discuss this and develop the working principles. If you are interested in attending, please contact Julie West (limited space is available).



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CALENDAR

THURSDAY, FEB. 17

Concert - The Department of Music presents a faculty concert featuring department chair Mary Cyr on viola da gamba and the University of Western Ontario's Richard Semmens on recorder and Sandra Mangsen on harpsichord. The free concert, which will inaugurate U of G's new harpsichord, begins at noon in MacKinnon 107.



Sarah Carrère Dika performs at a noon-hour concert Feb. 24.

FRIDAY, FEB. 18

Nutritional Sciences Seminar - "Adventures of a Holobiologist in a World of Free Radicals" is the subject of Prof. Harold Draper at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Prof. Keith Betteridge examines "Attitudes to Embryos: Some Causes and Consequences" at 12:10 p.m. in OVC 1642.

Interdepartmental Evolution and Systematics Seminar - Peter Gogarten of the University of Connecticut talks about "Evolution of Protein Pumping ATPases: Rooting the Universal Tree of Life" at 3:10 p.m. in Axelrod 117.

SATURDAY, FEB. 19

Cinema - The Fantasy Horror Club presents Bram Stoker's *Dracula*, *Rackula* and *Love at First Bite* at 6 p.m. in UC 332.

SUNDAY, FEB. 20

Collectibles Fair - Hockey Hall of Famer Yvan Courmoyer will be on hand for the 15th Guelph Collectibles Fair, which runs from 11 a.m. to 5 p.m. in the UC. Admission is \$4 general, \$2.50 for students.

Concert - The African Student Association, the University Centre and the Ontario Africa Working Group present the music and dance of N'Dere, an 11-member troupe from Uganda, at 2 p.m. at St. Georges Anglican Church. Tickets are \$12 general, \$10 for students, and are available at the UC box office.

MONDAY, FEB. 21

Opening - The Campus Ministry will officially open its interfaith resource centre at noon in UC 303. On hand will be representatives from the Hindu, Muslim, Baha'i, Jewish and Christian faiths. At 7 p.m., there will be an interfaith panel discussion of "Religion, Racism and Respect" in Peter Clark Hall.

THURSDAY, FEB. 24

Lecture - The departments of Music and French Studies present Senegalese singer and storyteller Sarah Carrère Dika discussing "The Oral Tradition in Black Africa" at 10 a.m. in MacKinnon 203.

Veterinary Microbiology and Immunology Seminar - "Evasion of Cytotoxic T Lymphocytes by Herpes Simplex Virus" is the topic of pathologist Ian York of McMaster University at 11:10 a.m. in OVC Learning Centre 1715. Anyone interested in meeting with York should call Prof. Eva Nagy at Ext. 4783.

Concert - Sarah Carrère Dika, the only African laureate of the Yehudi Menuhin Foundation, performs songs and poetry of Africa at noon in MacKinnon 107. Admission is free.

Lecture - Rev. Gertrude Lebas, principal of the Centre for Christian Studies in Toronto, is guest lecturer at the first in a series of presentations on "Christianity and New Family Realities" sponsored by the Campus Ministry and Harcourt Memorial United Church. It begins at 7:30 p.m. at Harcourt Church.

TUESDAY, FEB. 22

Our World - "Ancient Futures: Learning from Ladakh" is the topic at 12:10 p.m. in UC 441.

Physics Seminar - Laurent Lewis of the University of Montreal explains his "Molecular-Dynamics Study of Supercooled Ortho-Terphenyl" at 4 p.m. in MacNaughton 113.

Workshop - A discussion of "Women's Spirituality from a Pagan Perspective" runs from 5 to 7 p.m. in UC 103.

Student Involvement and Leadership Series - "Whips or Carrots: Motivational Strategies" is the topic from 5:10 to 7 p.m. in the Eccles Centre.

WEDNESDAY, FEB. 23

Third Age Learning - This lecture series for retired people continues at 10 a.m. at the Arboretum Centre with retired English professor John Bligh on "Relativity and Logical Positivism" and at 1:30 p.m. with Prof. Henry Wiseman, Political Studies, on "The Rise of Nationalism."

Biochemistry Seminar - Gaynor Watson of the Department of Microbiology considers "Studies on the Inhibition of Peptidoglycan O-Acetylation" at 12:10 p.m. in MacNaughton 222.

FRIDAY, FEB. 25

Nutritional Sciences Seminar - Paul Pencharz of the Hospital for Sick Children talks about "Protein Metabolism in Neonates" at 11:10 a.m. in Animal Science and Nutrition 141.

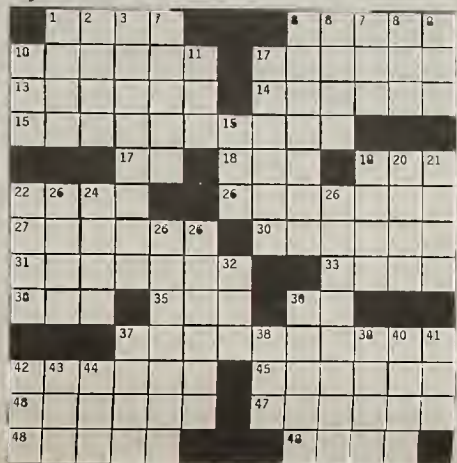
Biomedical Sciences Seminar - Manabu Yamada of the Hiroshima Prefectural University

of Japan discusses "Hemostatic Profile of Bovine and Equine Follicular Fluid" at 12:10 p.m. in OVC 1642.

SATURDAY, FEB. 26

Arboretum - Maple Syrup Days run today and tomorrow and continue weekends until the end of March. Meet at the nature centre between 9:30 a.m. and 3:30 p.m.

Canadian Criss Cross by Walter D. Feener



ACROSS

1. Canal's enclosed part
5. Encounters
10. Mexican dish
12. Sally of troops
13. Egg dish
14. Brawn
15. — HILL, OTTAWA
17. Officeholder
18. Cereal grass
19. Propitiatory bribe
22. Cartoonist Al
25. Short stiff hair
27. EDMONTON TEAM
30. Spangle
31. Fragrant
33. Edible shoots
34. Typewriter part
35. Swedish name of Turku
36. Not you
37. Salves and lotions
42. NEWFOUNDLAND AIRPORT
45. Long-haired cat
46. Still to appear
47. Of the same age
48. BLUE JAYS AND JETS
49. Join by sewing

DOWN

1. Tibetan monk
2. Tenth of a sphen
3. Diameter measuring device
4. Fashion designer
5. CANADIAN POLICEMAN
6. Formerly
7. And so forth: abbr.
8. Sesame
9. Visualize
10. Uppermost
11. Greek letter
12. Besmirches
16. Disorderly crowd
19. Ornamental button
20. Hodgepodge
21. Female swans
22. B.C. EXPLORER
23. Officer's
24. assistant
26. Window cleaner
28. Nomads
29. Induce to commit perjury
32. Twelve deniers
36. King of Crete
37. Ancient Asian country
38. Resinous secretion
39. — SCOTIA
40. Railway car
41. Actor Mineo
42. Eviscerate
43. Chemical suffix
44. Celtics assoc.

For crossword solution, see page 2

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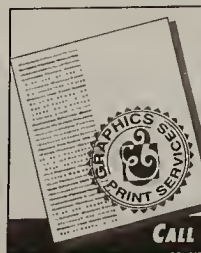
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FOCUS



Hockey Gryphon Cassie Campbell has her sights set on the 1998 Olympics.

Photo by Maurice Oishi

She shoots, she scores

Hockey Gryphon wins berth on women's national team

by Maurice Oishi
University Communications

Cassie Campbell cut her teeth playing hockey with the boys at age six. And she hasn't looked back since.

A member of the Gryphon hockey team since last year, Campbell is one of five rookies named to Canada's women's national team after tryouts in late January.

She's part of a wave of new blood that's looking to make the 20-member national team a contender when the sport gets medal stature at the 1998 Olympic games. But don't expect the women's game to look anything like its male counterpart, Campbell says.

"It's a totally different style of game. I've even heard guys say that although it's slower, it's more of a thinking game." The emphasis, she says, is on passing and making plays — teamwork over power.

And that's Campbell's forte, says her U of G teammate and housemate, Sarah Applegarth. "She's a really fast player and it opens up the game for her. Plus you can tell she's thinking about what she's going to do before she gets the puck."

Campbell, a native of Brampton, started playing hockey after moving with her family to New Jersey. There were no girl's leagues, so she learned the sport with her brother on boys' teams.

After two years, her family returned to Canada and Campbell started playing girls' hockey. Now she finds herself practising six times a week — four evenings at U of G and two with the Mississauga Chiefs senior AA team.

Playing for two teams seems to whet Campbell's skills, says Applegarth. On Guelph ice, she plays defence; in Mississauga, she plays forward. "She knows every aspect of the game," Applegarth says.

Couple Campbell's smarts with her size and speed, Applegarth says, and you have a powerful defensive player. The women's game isn't as physical as the men's — there's no body checking — but Campbell's attributes are major obstacles for opposing forwards trying to cross the Gryphon blue line, Applegarth says.

Campbell herself speaks less of natural talent than tenacity. Making the national team is the culmination of a long-held dream and the product of a competitive

spirit, she says.

"I knew that as long as I trained as hard as I could and if I played as hard as I could, then if I didn't make the team, I wouldn't have had any excuses. I'd just try again next time and the time after that."

But once was enough. Players from New Brunswick to B.C. competed for spots on the team. Although the stakes were high, Campbell credits the coaching staff with making the tryouts in Kitchener friendly and supportive. By the time the players actually hit the ice, they were relaxed and ready to skate.

"The only real tension was on Sunday, when they named the team," she says. "I don't think anyone got more than two hours of sleep Saturday night."

The final selection for the Olympic team is in 1998. Her call to the current roster puts her in good stead to make that team as well. In the meantime, she's looking forward to the World Games in Lake Placid, N.Y., in April.

Looking ahead to the day when she can bring her style of hockey to the Olympic games doesn't leave much time for looking back. Playing with the boys, she says, "was just an advantage in that I got to play that early in life." □

Pelee relocation family affair for flying squirrels

by Jennifer Cutts
Office of Research

It hasn't taken long for Canada's southernmost flying squirrels to start handing out cigars. A pre-Christmas head count of the 41 flying squirrels relocated to Point Pelee National Park last spring and summer by a Parks Canada and U of G research team shows the cluster is growing by leaps and bounds.

Graduate student Ian Adams and Prof. Tom Nudds, Zoology, say five female squirrels have found mates and raised litters within the park. Three females that were pregnant at the time of the relocation also gave birth. In total, the researchers estimate the population has grown by 25.

"We expected that as a result of the move, the squirrels would be investing their energy into general subsistence rather than reproduction," says Adams. "Apparently food wasn't the only thing on their minds."

Scientists believe flying squirrels disappeared from Point Pelee because of habitat loss in and around the park, owing to tourism, agriculture and misguided management. The flying squirrels may have been partially victimized by a stigma attached to red squirrels, which were thought to be harmful to certain birds and fowl and were therefore eradicated. Since then, biologists have come to understand that squirrels are a natural part of the complex

Carolinian ecosystem and should be reintroduced into their habitat where feasible.

Adams and Nudds have been monitoring the squirrels' movement with the help of radio transmitter collars affixed to the animals before their release. Some of the squirrels were provided with nesting boxes and supplemental food, but a control group was left to fend for itself to determine the suitability of the new habitat. The researchers say that squirrels from both groups have taken to the island's dead trees — their natural nesting spaces — and they expect the trees to provide adequate cover even during this unusually harsh winter.

When the relocation project is completed this summer, about 100 squirrels will have been released. Nudds says the early signs are encouraging. "If reproduction is any sign of successful adjustment to the habitat, then the squirrels are content in their new homes."

In addition to Parks Canada, financial contributors to the project are the Friends of Point Pelee, Bausch and Lomb and the Long Point Region Conservation Authority. Guelph undergraduates involved in the project are Paul Dommer, Pat Perdichuk, Alfredo Rios, Karen McCoy and Alistair Mackenzie. The U of G Wildlife Club helped build the flying squirrel nesting boxes. □

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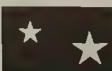
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FIRST GLANCE

A little food for thought

Some cut the mustard as athletes and go to the Olympics. Others cut the culinary mustard, thyme and cilantro and learn to condition their palates.

(Taste) budding gourmards can introduce themselves to worldly delights through the School of Hotel and Food Administration's multi-course gourmet dinners, scheduled to run Wednesday evenings beginning Feb. 23.

Under the tutelage of experts — including a culinary gold medalist — HAFA students lay out food from China, Quebec, Alsation-Germany, Canada's First Nations, Tuscany and the fusion of Asian and B.C. haute cuisine.

The dinners begin at 7 p.m. at the HAFA restaurant. To find out more about the menus or to make reservations, call Ext. 8116.

Inside:

WIN looks at ways to cut energy costs 3

Book explores adult relationships in the family life cycle 4

Trench warfare escalates against Colorado potato beetle 5

Indonesian students respond 6&7

Business leaders offer students advice on job market 9

She's in the swim of things 12

Thought for the week

If you haven't got anything nice to say about anybody, come sit next to me.

Alice Roosevelt-Longworth

THE RIVER
DOWNTOWN
GUELPH

Zero-tolerance policy raises questions of academic freedom at universities

The Ministry of Education and Training's (MET) policy framework on harassment and discrimination at Ontario universities is drawing criticism throughout the province.

Several Ontario universities and their faculty associations have responded with anger to MET's "Framework Regarding Prevention of Harassment and Discrimination in Ontario Universities," which was published in the fall. The document says the province has adopted a policy of zero tolerance of harassment and discrimination at postsecondary institutions and that the central goal of each harassment and discrimination policy should be zero tolerance.

Some universities are saying the guidelines jeopardize academic freedom. They also object to the government telling them what to do.

President Mordechai Rozanski said last week he shares these concerns and has expressed them, both at a meeting of the Council of Ontario Universities (COU) held with the Ontario Council on University Affairs (OCUA) and to the COU committee on educational and employment equity that he chairs.

"The greatest failing of the framework is that it did not address the potential conflict between academic freedom and a 'zero tolerance' stance," said Rozanski.

In response to strong opposition emerging from the university community and the press, Minister of Education and Training Dave Cooke issued what Rozanski describes as a "qualifying" statement Feb. 9 to clarify the guidelines. Cooke said the framework is not legislation, but simply a model against which universities can compare their own harassment and discrimination policies. The responsibility for creating a learning environment rests with each university, he said.

Cooke said the government recognizes that universities are legally autonomous and has no intention of changing that.

Rozanski said that whatever the ministry's intent, he is fundamentally opposed to the government using the term "zero tolerance" in this framework. The term was originally used in the war against drugs and violence, he said, and it is inappropriate to use it in a dynamic university context.

The president said he is disturbed by the government's continuing escalation of regulatory demands on universities. "Not only are these intruding on university autonomy, but even where they may be worthy of consideration, they are not accompanied by funding and, what's worse, are accompanied by a continuing escalation of funding cuts that diminish our ability to provide the highest quality of education and services."

U of G is fully committed to opposing racism and sexism on campus, said Rozanski. Guelph established a policy on sexual harassment in 1989, and the Anti-Racism and Race Relations Task Force expects to soon provide the president with a report that will enable Guelph to

relate the ministry's guidelines in an integrated human-rights approach that respects diversity and focuses on U of G's educational mission.

"I am confident that our policies are going to be quite effective in dealing with this important issue," he said.

Rozanski said he is personally and institutionally opposed to anything that would have a "chilling effect" on academic freedom — anything that restricts the freedom of faculty and students to talk about racism, sexism and other matters in the classroom. "After all, how can we combat intolerance if not by discussing openly ideas or conduct that we find abhorrent?"

A university must be open to a full range of viewpoints, he said. "In the end, it is through education and exposure that we will bring about change in our society, including a remedy for systemic forms of racism and sexism. In this open context, we can reject and condemn hateful messages, but also remain a forum for ennobling ones that we can embrace."

In supporting academic freedom and freedom of expression, Rozanski said he does not condone a hostile environment in the classroom.

"But to be meaningful, teaching may at times confront our sensibilities and offend. We must,

See CAMPUS on page 2



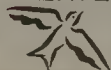
It's in the genes!

Crop science professors Steve Bowley, left, and Bryan McKersie have introduced new genes into alfalfa to create the world's first freeze-tolerant alfalfa. At right is standard alfalfa suffering from the cold; at left is the new, improved version.

Photo by Trina Kostler, Office of Research

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Corrections

In the Feb. 16 issue of *At Guelph*, the name of OVC Dean Ole Nielsen was inadvertently omitted from the membership of the selection committee for the dean of the College of Biological Science.

A Feb. 2 *At Guelph* item about a Turkish exhibit at the Wellington County Museum and Archives contained an incorrect name. It should have read Rezan Peya Gökçen. □



The art of interning

A new internship program developed from a fall '94 museum studies course taught by Prof. Chandler Kirwin, Fine Art, and Judith Nasby, director of the Macdonald Stewart Art Centre, gives students a chance to work in the areas of curating, education and exhibition preparation. Above, Nasby and Kirwin take the first interns on a tour of campus art. From left are Julianna Murphy, Joanne McAuley, Karin Silverstone, Lisa Cipparone and Michelle Miller. Missing is Sheila Ord.

Photo by Maurice Oishi

OUR PEOPLE

Family studies prof discusses nutrition

Prof. Debbie O'Connor, Family Studies, spoke on "Neural Tube Defects and Periconceptional Folate Supplementation" at the Maternal and Pediatric Nutrition Conference sponsored by the Ontario Dietetic Association.

Paper compares consumer decisions

Prof. John Liefeld, Consumer Studies, gave a paper at the fourth Cross-Cultural and Business Studies Symposium sponsored by the American Psychological Association, the Association for Consumer Research and the Pacific Basin Region of the Academy of International Business. Co-authored by Prof. Marjorie Wall, chair of the Department of Consumer Studies, and Louise Heslop and Nicolas Papadopoulos of Carleton University, the paper was entitled "Cultural Differences in Consumer Orientation to 'Made-in' Labels and Perceptions of the Quality of Products from Different Countries: A Five-Country Study."

Sigma Xi recognizes research excellence



Kim Bolton



Ian Renaud



Bill Szkotnicki



Isobel Simpson

The Guelph chapter of the Sigma Xi Society paid tribute to excellence in research and teaching Feb. 2 at its annual awards banquet. The Excellence in Research Award went to Prof. Derek Bewley, Botany. The H.S. Armstrong and D.G. Ingram awards for outstanding PhD and master's theses were awarded to Kim Bolton and Isobel Simpson, both of the Department of Land Resource Science. The society also presented research support awards to Ian Renaud, Chemistry and Biochemistry, and Bill Szkotnicki, Animal and Poultry Science. □

Campus forum March 21 to explore issues of academic freedom

Continued from page 1

of course, take care to avoid malice and incendiary conduct. But the best response is argument, rejection and public condemnation, not legislated silence or thought control. We will be the blandest of the bland if we avoid controversy and only focus on the safe and inoffensive."

But with all this, universities must never forget their fundamental commitment to opposing racism and sexism and the role of education in defeating them in society, he said.

Rozanski said that in any event, there seems to be some misunderstanding in the press about what MET has asked universities to submit to OCUA by March 1. "MET is not asking us to submit a plan of zero tolerance. They have asked us to submit whatever policies we already have in place and a status report on pending policies by that date."

He said he currently has no intention of submitting Guelph's sexual harassment policy by March 1 because the institution already did so in October 1992.

"Until there is further clarification of the intent or meaning of such ambiguous phrases as 'minimum expectations' and 'negative environment,' we will continue to study the situation and make progress at U of G."

UGFA issue

On the agenda for the Feb. 24 meeting of the University of Guelph Faculty Association (UGFA) is a resolution, endorsed by the association executive, that the Ontario Confederation of Faculty Associations (OCUFA) be more proactive in defending academic freedom.

"OCUFA has been dealing mostly with MET, but we want them out there lobbying more vigorously for academic freedom," said UGFA chair Lorne

Bruce of the library.

UGFA is also meeting with Prof. Iain Campbell, acting academic vice-president, to revisit Article 15 in the *Special Plan Agreement*, which addresses academic freedom and responsibilities.

Bruce said the article should be reassessed because it was written more than 10 years ago, and a host of new policies have been introduced since then.

"We need to review it to improve and clarify some of the language and to set it within today's learning environment," he said.

Rozanski and Bruce point to a Feb. 14 letter to the editor in the *Toronto Star* from OCUFA president Saul Ross. Ross said there is nothing in the ministry framework that would require MET approval for universities to continue to co-operate under their existing policies and nothing that would allow MET to override those policies.

Planning for a campus forum on

the relationship between academic freedom and harassment and discrimination policies has been in the works since before Cooke issued his guidelines. The forum will be held March 21 in conjunction with a student-organized anti-racism week and on the United Nations' international day for the elimination of racial discrimination.

The forum, free and open to the public, begins at noon in Room 103 of the University Centre and is sponsored by the Office of Employment and Educational Equity, the Human Rights Office, the Sexual and Gender Harassment Office, the UGFA, the Central Student Association and the Graduate Students' Association.

Speakers will include OCUFA vice-president Emily Carasco, a law professor at the University of Windsor, and Prof. Judy Wubnig, a philosophy professor at the University of Waterloo and a

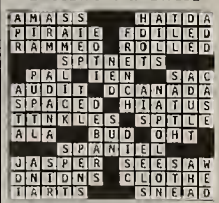
member of the Society for Academic Freedom and Scholarship.

Prof. Jay Newman, Philosophy, will provide a brief history of the development of academic freedom in Canadian universities.

There will also be a panelist representing the student perspective, says Janet Kaufman, director of educational and employment equity.

Watch for more details in a future issue of *At Guelph*. □

Crossword answers



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WIN finds many energy-saving ideas already in place

by Maurice Oishi
University Communications

Energy-saving suggestions being received by the Waste and Inefficiency (WIN) Committee would be tough to implement, mostly because they're already in place.

To date, the committee has received 10 suggestions of ways to pare down the University's \$7.6-million-a-year utility bill. They include improving the efficiency of lights, reducing the number of vehicles on campus and putting timers on Athletics Centre showers.

But most of these suggestions have already been investigated by U of G's 22-year-old Energy Conservation Committee, says WIN committee member John Flowerdew, head of the Engineering Department. The University has installed light sensors on outdoor light fixtures and high-efficiency bulbs over the last 16 years, and the Athletics Centre already uses water-conserving shower heads, he says.

As for gasoline use and vehicle maintenance, the campus fleet has already been reduced from its onetime high of more than 150 vehicles because of the internal review and a follow-up preview by user groups.

Vehicles reviewed

Currently tallying 130 vehicles, the fleet will probably lose another three, says Paul Cook, supervisor of Transportation Services. As vehicles come up for replacement, each is reviewed for utility and cost efficiency, he says.

Most vehicles are used for research and academic purposes. The remainder are used by campus units such as Security Services, Physical Resources, Hospitality and Retail Services and Student Housing Services.

Physical Resources will continue to investigate all suggestions for energy conservation. WIN has asked Physical Resources to examine the potential utility savings associated with a four-day work week during the height of summer. The shortened weeks would whittle away U of G's hydro consumption during the season of

greatest electricity demand. (Extended hours at other times would compensate for reduced summer hours.)

Other ideas have been to insulate exposed pipes in the shower area of the Athletics Centre and to look at the possibility of lowering building temperatures in the winter and raising them in the summer. The latter has been considered before, says Flowerdew, but "it's not easy to get 30 people to agree on what constitutes a tolerable temperature."

At the very least, he says, "we're glad somebody asked these questions because we can explain what's going on."

Heat recovery

For instance, what one WIN respondent saw as a wasteful hot-air vent on the side of the Animal Science and Nutrition Building was, in fact, a heat-recovery system. Rather than being discharged, air that is heated by the animals in the building is passed over coils in a vented hood. The collected heat is then recirculated elsewhere in the building.

Overall, energy efficiency, as measured by dollar savings, has progressively improved on campus over time, largely because there was much to be improved on, says Flowerdew.

Much of the University was built between 1964 and 1972, before the oil crisis of the 1970s. Expenses of glass, nominal insulation and wasteful mechanical systems were the norm, he says.

In 1972, U of G used 30 per cent more energy to heat, cool and maintain a square metre of floor space than it does today, he says. Translated into dollars, that means if U of G had done nothing to improve energy efficiency over the past two decades, it would be paying an additional \$2.7 million a year for utilities.

Still, U of G uses more energy than any other Ontario university except Lakehead on an area basis, says Flowerdew. That reflects the cost of Guelph's extensive greenhouses and growth cabinets. "Many of our facilities are very specialized and by their nature are high energy consumers. But there

is a big difference between using energy and wasting energy."

Of the suggestions WIN has received to date, the most valuable has been to establish an information campaign to increase energy-conservation awareness, says

Flowerdew. Simply clicking off the lights as you leave a classroom, an office or laboratory or shutting off a computer — which uses three times the energy of a 100-watt light bulb — would be a good start, he says. "It's so hard to

gauge (the potential savings of simple actions), but it's just the sensible thing to do."

Future issues of *At Guelph* will offer energy-saving tips everyone can use to save the campus money throughout the year. □



Vandals cause water damage

Luisa Franceschi, a secretary in the Department of Chemistry and Biochemistry, works on as Bill Clair of Physical Resources repairs damage done by vandals in the Chemistry and Microbiology Building Feb. 12. A hallway safety shower was turned on late in the evening and wasn't dis-

covered until early the next day. Physical Resources estimates damage at about \$5,000. Personal belongings and lab equipment were also damaged from water seeping through a ceiling. The water also played havoc with some experiments.

Photo by Maurice Oishi, University Communications

Rooke stays on Strategic-Planning Commission as associate chair

Prof. Constance Rooke, who became associate academic vice-president Feb. 1, will continue to play a role in the Strategic-Planning Commission (SPC) as associate chair. Prof. Bev Kay, chair of the Department of Land Resource Science, will chair the commission.

Rooke and Kay served as co-chairs of SPC from its inception. With Rooke's new responsibilities, it was expected she would no longer serve as co-chair, but would continue on as a member of the commission. Kay says SPC members recommended strongly to President Mordechai Rozanski that Rooke continue to serve in a leadership capacity because they recognize she had much to offer.

Rozanski says he's pleased that Rooke will continue to play a significant role in the Strategic-Planning Commission. "But given her new and weighty responsibilities

as associate vice-president, academic, it's appropriate that she change her role and focus more on issues where she can be most helpful," he says.

More than 100 people in the University community — faculty, staff, students, Board of Governors members and alumni — are serving on 11 task forces that are gathering the data that will be the raw material for the commission's decision making.

Commission meetings are open to the University community (a schedule appears at right). If it becomes necessary to cancel a meeting or change the location, an announcement will be posted on GRIFF.

People can join in discussions of issues related to strategic planning on NetNews, CoSy or TCoSy. In NetNews, subscribe to the local news group UOG.STRATEGIC-PLANNING-COMMISSION.

On CoSy and TCoSy, the conference is called SPC_OPEN.

"We're looking for ideas," says Kay. "We want bold new ideas for innovations in teaching, research, service, student services and administrative support for these activities. I hope these ideas will

come from staff and faculty who are close to the activities. They will know them best."

Send written ideas or suggestions to the commission care of Kay or via e-mail to spc@uo.guelph.ca. Submissions can be made anonymously.

GRIFF will serve as a bulletin board for letters, reports and discussion papers issued by the commission. GRIFF can be accessed through Maslo. Once in GRIFF, "Strategic-Planning Commission" is a choice on the top menu. □

SPC meetings open to community

Members of the University community are invited to attend the following meetings of the Strategic-Planning Commission, space permitting. Meetings are scheduled for three hours; a portion of each may be held in camera.

- March 4 — 9 a.m., in OVC Learning Centre 1715
- March 9 — 4 p.m., University Centre 442
- March 17 — 1 p.m., UC 442
- March 25 — 9 a.m., Learning Centre 1715
- March 30 — 4 p.m., Animal Science and Nutrition 141

- April 7 — 1 p.m., Animal Science and Nutrition 141
- April 15 — 9 a.m., UC 442
- April 27 — 4 p.m., OVC LC 1713
- May 12 — 1 p.m., UC 442
- May 27 — 9 a.m., OVC LC 1715
- June 8 — 4 p.m., UC 442
- June 23 — 1 p.m., Location TBA
- June 29 — 4 p.m., UC 442.

Also planned are study retreats. The first process in early May. The actual dates have yet to be scheduled. □

BOOKS

Among generations

Looking at adult relationships throughout the family life cycle

by Margaret Boyd
University Communications

Adult life stages in family and peer relationships are the subject of the new book *Among Generations, The Cycle of Adult Relationships* by Profs. Joan Norris and Joseph Tindale, Family Studies.

The book takes two people from the time they choose to become a couple and follows their relationship through their family life cycle. Along the way, the typical life events of childrearing, grandparenting and friendship take on an interdependent framework of attachment and reciprocity.

The book contains surprises and revelations. It explores the reasons why young adults are more financially dependent on their parents than previous generations and why this trend will continue.

The authors use anecdotes from their own family histories to introduce chapters on topics ranging from parenthood to sibling relationships.

In exploring the many problems typically encountered throughout the family life cycle, the authors stress the importance of keeping the lines of communication open as a route to understanding and

resolution.

"Communication is the book's recurrent theme," says Tindale. Adds Norris: "And good communication emerging out of strong emotional bonds between parents and children leads to all kinds of exchanges."

Parental support for car loans and house down payments, for example, are more frequent than in previous generations because of current economic realities, says Tindale. Another emerging trend is adult children returning to the family home because of financial difficulties or educational pursuits.

Despite the obvious imbalances of these situations, they frequently work out because of what the authors refer to as "global reciprocity." This symbolizes the long-term attachment and balance in parent-child relations that negates the need for immediate restitution with every exchange.

In fact, large exchanges of assistance from the older to the middle generation provides needed balance to the sometimes one-sided notion of the "sandwich generation" — the middle generation being squeezed between the needs of growing children and aging parents.

"The sandwich generation hap-



Profs. Joan Norris and Joseph Tindale explore relationships throughout the family life cycle in their new book.
Photo by Margaret Boyd, University Communications

pens, but it is more often the kids who are still needy," says Tindale. "The balance turns, but it is later in life when the parents are in their 80s."

The book also looks at the ways couples and families cope with

in-laws, siblings, divorce, grandparenting and friendship. To deal with problems, the authors emphasize negotiation — specifically tailored to different types of relationships — as a means of coping with change and promot-

ing growth.

Among Generations, The Cycle of Adult Relationships is published by W.H. Freeman and is available at the Bookshelf in Guelph or by calling General Publishing at 1-800-387-0141. □

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Physicists renew energy textbook

by Margaret Boyd
University Communications

gy field, everything goes out of date quickly."

Energy, Physics and the Environment was field tested in the classroom before being published. Students were "tremendously helpful" in making suggestions and handing in chapter

evaluations, says McFarland.

Two thousand copies have been printed by Wuerz Publishing Ltd., a Winnipeg-based company specializing in science books. The authors are now preparing a series of videos on energy issues to accompany the book. □

A new textbook on energy issues by acting academic vice-president Iain Campbell and fellow physics professors Jim Hunt and Ernie McFarland is unlike most others in the field, say the authors.

For one thing, *Energy, Physics and the Environment* is designed for third- and fourth-year science students, unlike most others on the subject, which are aimed at non-science majors. For another, it takes a quantitative approach to energy issues that most other texts don't. And whereas many texts have an American bias, this one provides an unabashedly Canadian focus within an overall global picture, Campbell says.

The text, which will be sold worldwide, covers all energy sources from fossil fuels to nuclear energy and wind energy. It also discusses the current state of technology in the energy field, the environmental impact and the advantages and disadvantages of energy sources. The text does not, however, take a political stance on any issue, he says.

The book replaces one written by Campbell 20 years ago called *Physics and the Energy Problem*. Created for one of Canada's first energy courses, it was published through the campus bookstore. The text hadn't been revised since 1981, so McFarland and Hunt carried out an extensive update over the last year, with Campbell commenting on the revisions chapter by chapter.

The rewrite represents a major overhaul, says Hunt. "In the ener-



Profs. Ernie McFarland, left, Jim Hunt, centre, and Iain Campbell are authors of a new textbook on energy issues.
Photo by Maurice Olsh, University Communications



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Researchers enlist technology to battle hungry potato beetles

by Kerith Waddington
Office of Research

Technology is escalating the trench warfare being waged against the voracious Colorado potato beetle.

Since 1992, a research team from U of G, Agriculture and Agri-Food Canada and the Ontario Ministry of Agriculture and Food (OMAF) has been developing pest-management strategies to counter the \$3 million worth of damage the beetle inflicts on Ontario potato fields annually.

In commercial potato fields near Alliston, one of Ontario's leading potato-growing regions, the researchers have found that shallow plastic-lined trenches trap beetles marching to new fields from their overwintering sites and reduce beetle infestations by up to 70 per cent. That's equal to the kill ratio of insecticides now in use.

But digging the 16-inch-deep trenches and laying plastic means high labor costs. So even though trenches are an efficient management system, they're just too expensive for farmers. That's where new technology comes in.

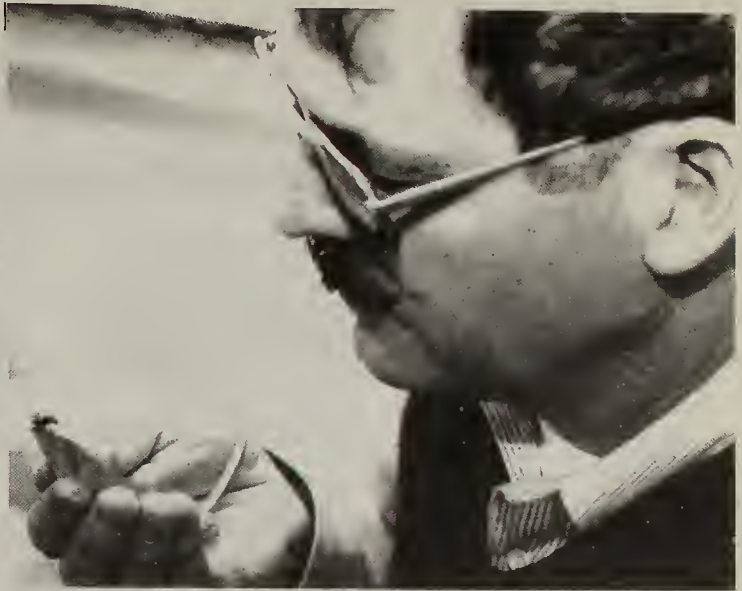
"Now that trenches have been proven to work, we want to make

them economically feasible," says team leader Prof. Mark Sears, Environmental Biology. "Through technology, I think we can cut labor by two-thirds."

Researchers are working on automated trench-digging and plastic-laying machinery, based on a prototype developed at an Agriculture and Agri-Food Canada research station in New Brunswick. Sears hopes that through a collaborative effort with Alliston farmers and an agricultural equipment manufacturer in Delhi, he can develop a machine geared to Ontario conditions.

Any reduction in the beetles' legions is helpful, he says. In field tests last year, the researchers trapped an average of 12 beetles per foot of trench. Half the beetles are female; each could produce 10 batches of 35 eggs in the new fields before mid-season. So trapping just six females per foot of trench translates into a potential reduction of about 2,000 hungry beetle larvae in the field.

Sears says the payback to farmers can be appreciable. If a trench along one edge of a single 100-acre field can save a grower one or two insecticide applica-



This Colorado potato beetle under the watchful eye of Prof. Mark Sears looks innocent enough, but its relatives ring up damages to the tune of \$3 million a year in Ontario potato fields.

Photo by Kerith Waddington, Office of Research

tions, this represents a potential savings of \$2,000 to \$4,000 in chemical costs.

"More important, as a passive, non-chemical method of control, it works to ease the burden on the environment and to relieve selection pressure on the beetle population for resistance to insecticides," he says.

Technological trench warfare is

just one of the management systems the team has been examining. The others include:

- using a predatory stink bug that feeds on beetle eggs and larvae;
- planting "trap rows" earlier than the main crop to attract and arrest further advancement by the beetles; and
- firing a propane flamer in these trap rows to kill larvae or

damage the beetles' antennae and other sensory mechanisms.

Sears's research is sponsored by Agriculture and Agri-Food Canada's Rural Conservation Club through the Green Plan, the Ontario Fruit and Vegetable Growers' Association's horticultural farm support and adjustment measures program and OMAF's Food Systems 2002 program. □

New genes help alfalfa plants fend off freezing temperatures

by Andres Kahar
Office of Research

When the mercury takes a plunge, people bundle up. But important crops like alfalfa, which often spend long winters in the field, are laid bare to the elements. To help

them survive, Guelph researchers have introduced new genes into standard alfalfa plants and created the world's first freeze-tolerant transgenic alfalfa.

In the scientific journal *Plant Physiology*, a research team led by Profs. Bryan McKersie and

Steve Bowley, Crop Science, tells how — after six years of laboratory and field tests — they have produced a plant defence system that makes alfalfa more tolerant to environmental stresses such as freezing and drought.

"This alfalfa has undergone harsh field trials and tough laboratory tests," says McKersie. "It has performed well."

Key to their efforts is beefed-up superoxide dismutase (SOD), a gene native to alfalfa. It breaks down stress-activated oxygen molecules — which attack cell membranes during freezing and drought and cause decay — into substances the plant can use as energy or dissipate and emit as waste.

The project began in 1988 when McKersie was on sabbatical in Belgium at the University of Ghent and its sister company

Plant Genetic Systems. There, he participated in a project to isolate the SOD gene and modify it by adjusting the genetic control to automatically raise SOD levels during stress.

Later, he brought the project home with him and, along with research assistants Lori Wright, Yurong Chen and Emi Harjanto, shuttled the SODs back into the alfalfa and linked them to environmental stress tolerance. In 1992, the modified alfalfa was planted at the Elora Research Station, and the research crew began putting the plants through a battery of lab tests.

Out in the field, trials ran through last year and into this winter. Bowley says the transgenic alfalfa delivered a more rugged performance than its non-transgenic counterparts during the past two summers and winters.

The lab tests involved putting the alfalfa in freezers with temperatures as low as -16 degrees C for 24 hours and no watering for up to nine days — and still the transgenic alfalfa survived.

Besides the significance to Ontario's \$500-million-a-year hay crop (of which most is alfalfa), McKersie says this genetic defence might help other plants beat freezing — such as the grapevines of the Niagara region.

"It's hard to imagine what kind of an effect the winter temperatures we've experienced will have on many types of plants," he says. "Perhaps our success with alfalfa will have a broad application."

This research is sponsored by the Natural Sciences and Engineering Research Council and the Ontario Ministry of Agriculture and Food. □

Library finds users keeping close tabs

Early results from the library's periodical-use survey are in. And although the tally is far from complete, one thing is clear — people are being diligent about recording their use of journals and magazines.

"Our impression so far is that people are participating, and that means the results we get will be valid," says catalogue librarian Linda Day.

The first semester of a year-long survey wrapped up in December. During that time, library staff reshelfed volumes of the *Journal of Biological Chemistry* more than 700 times.

In contrast to this highly used journal, others had few or no ticks to show their use during the semester.

But one semester doesn't give a full picture of how well a journal is read, says Day. "The journals

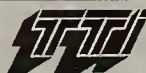
that get low use may get high use later in the semester or during the summer. It depends on the courses."

Each book is labelled with a survey card, where users tick off every use of the journal and library staff check off every

time the journal is reshelfed. In most cases, the number of times a journal is reshelfed reflects the number of times it was used by readers, says Day, but discrepancies do arise.

"We generally find that current issues are more likely to have more reader ticks than reshelfer marks. We assume that's because multiple readers may read a new copy before library staff put it back on the shelf."

The survey will continue until the end of August. □



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It's time to give readers balanced i

by Asep Saefuddin, Rilus Kinseng, Tutty Sodjakusumah and Yunardi

We are Indonesian students enrolled in graduate programs at U of G who have been studying here for at least two years. Dozens of Indonesian students have graduated from Guelph in the last five years. Most of them are lecturers or researchers working at various institutions in Indonesia.

Recent articles in the *Ontarian* have criticized the Indonesian government and collaborative projects between Canada and Indonesia. We believe that some of these articles are not based on reality. The writers did not include first-hand information from Indonesians.

We suspect the writers lack knowledge about Indonesia's cultural and historical background, its social and political systems and changes that have taken place recently. They have probably never been there and have never learned about Indonesia more deeply. We think it's time to give readers balanced information.

Indonesia is the largest archipelago in the world and consists of 13,677 islands. The land territory is estimated at 1,919,317 square kilometres. The population of Indonesia is about 180 million, the fourth largest in the world after China, India and the United States.

After the period of Hindu and Islamic kingdoms, parts of Indonesia were colonized by the Dutch for about 350 years, then by the Japanese for 3 1/2 years. Indonesia's independence was proclaimed Aug. 17, 1945, by Sukarno and Mohammad Hatta. Sukarno was then elected first president of Indonesia.

In the Jan. 11 issue of the *Ontarian*, Niall Wallace reported that Indonesian development of the eastern islands "began with invasion and forced assimilation of south Moluccas in 1950." What he fails to understand is that the Moluccas Islands and Irian Jaya have always been part of the Dutch East Indies once ruled by the Dutch.

Under the 1949 round-table conference agreements initiated by the United Nations Security Council, the Netherlands recognized Indonesia's sovereignty over the territories of the former Dutch East Indies. But the Dutch violated the agreement. In 1963, the UN Temporary Executive Authority had to take over Irian Jaya from the Dutch, then handed it over to the Republic of Indonesia.

Because of the history of kingdoms and colonialism in Indonesia, the cultures and social structures vary from region to region. Indonesia has about 250 different languages and a blend of ethnic groups, each with its own cultural heritage. Still, most Indonesians believe their country is characterized by "unity in diversity."

Indonesian culture is typified by paternalistic patterns in most relationships, as well as a desire to avoid open conflict and its consequent possible loss of face. Decision making is based on group consensus, group cohesiveness, a relatively high tolerance for ambiguity and a high regard for self-control and orderliness.

This would explain why Prof. John McMurtry, Philosophy, had little success in "interviewing" Indonesians about their government's rules, as he reports in a Jan. 11 letter to the *Ontarian*. In Indonesian culture, people don't tell an unknown foreigner (especially a tourist) what they think and feel about their government. It's not because

they're terrified — it's simply because it's none of the foreigner's business.

If only McMurtry could speak Bahasa Indonesia (the Indonesian national language), he would know that we talk openly about government issues almost every day. He could read in Indonesian magazines and newspapers the criticisms of the government by Indonesian citizens. He would also know the problems faced by the government as well as by the Indonesian people and how those problems are interrelated.

We Indonesians believe we understand the general situation in our own country. Indonesia is a huge developing country with a large population. These two factors have already created problems in communication, education, health care, infrastructure and so on, not to mention the cultural diversity that complicates the situation further.

We are not trying to hide the realities in Indonesia. In fact, we want to provide the truth about our country. It is not true, for example, that "Indonesia has been under an official state of emergency since 1957" as stated by John Turner in the Jan. 11 *Ontarian*. We don't understand how and where he got this wrong information.

In the next section, we will try to clarify some of the other incorrect information reported by Wallace, Turner, McMurtry and Sam Maltby in the *Ontarian*. This includes the issue of human rights, the role of the Indonesian government, the Sulawesi Regional Development Project (SRDP) and the Eastern Indonesia University Development Project (EIUDP).

Human rights and cultural relativism

It's important to acknowledge that Canada and other developed countries are paying serious attention to human-rights problems in the world. Human rights are one of the major concerns of human beings, not only in developing countries but also in developed countries. The Indonesian government has therefore paid serious attention to human rights since the country's independence in 1945.

This attention has grown yearly, and in 1993 a national commission on human rights was established. It's hoped that this body can solve or at least minimize the human-rights problems in Indonesia.

Observance and promotion of human rights should be encouraged in the world co-operatively, sanely and objectively. Room for confrontation and intimidation among countries on behalf of human rights should be eliminated because human rights themselves include respect of countries' institutions, cultures and traditions, as well as economic conditions. The expression and implementation of human rights should therefore take cultural relativism into consideration.

In addition, it should be noted that citizens of a country know more about themselves and their problems than people from other countries do. By understanding this principle, Canadians are able to collaborate wisely with developing countries like Indonesia. For this reason, Indonesians generally find Canadians to be fair, non-dogmatic, flexible, sympathetic, willing to learn and understanding of Indonesia's development problems. But this nice perception of Canadians will be easily dis-



carded if they use only tunnel vision on Indonesia.

Neglecting cultural differences among countries could lead to erroneous or misleading perceptions about such countries, including their approach to human rights.

At the Second World Conference on Human Rights held in Vienna in June 1993, Indonesia's minister of foreign affairs, Alatas, said: "... while we in the developing world do understand and appreciate the genesis of the thinking and motivation underlying present-day western policies and views on human rights, we should at least expect similar understanding and appreciation of the historical formation and experiences of non-western societies and attendant development of our cultural and social values and traditions. For many developing countries, some endowed with ancient and highly developed cultures, have not got the same history and experience as the western nations in developing their ideas on human rights and democracy."

It is hoped that this basic understanding can at least minimize self-righteousness in addressing human-rights issues. Alatas went on to say that "any approach to human-rights questions which is not motivated by a sincere desire to protect these rights but by disguised political purposes or, worse, to serve as a pretext to wage a political campaign against another country cannot be justified."

The existence of human rights is vital for developing every aspect of life, including education, health, economics, politics and infrastructure. It is therefore clear that implementation of human rights implies the existence of a balanced relationship between individuals' human rights and their obligation toward their community and state.

For that reason, human rights in Indonesia cannot be separated from the rights of community. Human rights do not deny respect to others, the rights of society and the rights of nations. We believe that with this atmosphere, all aspects of national development can be tailored to build peace and national stability in Indonesia.

With respect to East Timor, especially the Dili massacre in November 1991, we believe all Indonesians were deeply saddened by this event. The Indonesian government responded quickly to the tragedy, forming a national inquiry commission and establishing a military council. As a result, two generals and several other senior military officers who were responsible for this incident were fired

without any exception.

Of all the myths about East Timor developed and disseminated by Indonesia's detractors, none is more malicious and misleading than the endlessly repeated allegation about the number of lives lost in the region. Critics charge that East Timor's population decreased by 200,000 or more.

It's important to note that the only internationally accepted census of East Timor was taken in 1980 as part of a nationwide count by the Indonesian government. The resulting population figure of 555,350 seemed to show a decline of some 69,000 from the last colonial estimate of 624,564.

The true difference will never be known. Colonial authorities themselves acknowledged that their figures for 1974 and earlier were estimates based on reports by village heads, whose counts were never verified by the Portuguese government.

We would like to see reports about East Timor based on reality, including statistics, and aimed at improving the human welfare of the East Timorese, not just offering them empty hopes. If those *Ontarian* writers really want to improve the human rights in East Timor, we suggest they become involved with the East Timor development program rather than just yelling in emotional agitation.

The above fundamental understanding of real problems of human rights in Indonesia and other countries — acknowledging cultural relativism — can revitalize Canada's role as a link between north and south. At the same time, this country can realize its goal of enhancing human rights wisely, not only in Indonesia but also in the world at large.

Indonesian government and development

The portrayals of the Indonesian government in the Jan. 11 *Ontarian* were misleading. Turner called it "a criminal foreign government," Maltby labelled it "a genocidal military dictatorship" and Wallace described it as "one of the world's most brutal dictatorships." The information presented was one-sided; nowhere was the other side of the story given.

As people who experience real everyday life in Indonesia, we believe the use of such terms is inappropriate.

The writers in the *Ontarian* seem to be very sure that the Indonesian government has no intention of improving the lives of its rural population. Maltby said

information, say Indonesian students



supporters of the Sulawesi Project neglected to ask the question: "Why would a genocidal military dictatorship seek to raise the standard of living for its rural inhabitants?"

There is no doubt that the Indonesian government has a strong intention — and will take real action — to improve the standard of living for the country's rural inhabitants. There have been abundant examples of successes as well as failures. The government has, for example, been promoting education among Indonesians. Formal education is provided free up to Grade six, tutorials are offered to illiterate adults — mainly in rural areas — scholarships are given to excellent students from low-income families and so on.

In the agricultural sector, countless programs have been implemented to improve the standard of living of peasants and fishers. Agricultural extension is provided along with technologies and financial assistance or credit.

Infrastructures such as roads and irrigation systems are being built by the government. One of the writers of this article witnessed development taking place in his home town, a village in Central Kalimantan. Up to the 1970s, road conditions were very bad and there was no irrigation system. After a heavy rain, rice in the fields would sometimes be completely covered with water. This situation improved significantly in the late 1980s because the government built roads and introduced an irrigation system.

Another example is the family-planning program. Although there was a lot of resistance in the beginning, eventually the program promoted by the government was widely adopted voluntarily by Indonesians.

In a field study, one of the writers of this article found that most people in rural Central Kalimantan practise family planning because they recognize the advantages of the program. Some even regretted that the program had been introduced to them too late.

The government also provides health-care facilities for rural inhabitants. This includes an integrated community health service at the village level and a community health centre at the district level.

The role of women has also become a major concern of the government. There are now six Indonesian women studying at U of G and many more at other Canadian universities. In addition, the State Ministry for Women's Role was established in 1978.

By presenting these facts, we are not trying to say the Indonesian government is completely good. What we are saying

is that the government has strong intentions and is taking real action to raise the standard of living of its rural inhabitants as well as its urban ones.

Canada/Indonesia collaboration

Canada has been involved in development aid in Indonesia for almost 40 years, beginning with the Colombo Plan. The Colombo Plan was established as a co-ordinating mechanism for aid transfers in the British Commonwealth. Indonesia joined an expanded version of the original scheme, and Canadian bilateral aid to Indonesia began in 1954.

The early years of Canadian assistance consisted primarily of food and related technical support. It arrived in the form of grants and continued at a modest level until the political change in Indonesia in 1965/66. In the late 1960s, food aid was still predominant, but as the government of Indonesia focused its attention on fostering economic stability and creating the necessary infrastructure for social and economic development, technical assistance increased.

Since the Colombo Plan, the structure of the assistance system itself has changed. Canadian development aid now occurs within a framework that includes bilateral aid between the two countries, multilateral aid through international organizations and special programs such as non-governmental organizations (NGOs). It is administered primarily by the Canadian International Development Agency (CIDA).

In 1972, Indonesia became a country of concentration for CIDA, reflecting an awareness of tremendous potential for its development. Food aid declined to only a small component of the assistance program as Indonesian agriculture approached self-sufficiency. Canada's bilateral aid began to concentrate on such areas as transportation, power, agriculture and regional development.

CIDA realized the complexity of long-term development in Indonesia. By 2000, Indonesia's population is expected to be more than 200 million, most of whom will live on the island of Java. Indonesia's people represent its main development asset and, at the same time, its greatest structural constraint. The need to develop and use this resource, including the role of women, is clearly recognized in Indonesia. Based on this issue, current CIDA projects focus on:

- strengthening Indonesia's planning and institutional base for the development of human and natural resources;

- promoting participation of the private sector from both countries in support of long-term Indonesian development needs; and

- enabling the participation and implementation of networks and links between Indonesian and Canadian private non-profit organizations in support of the aid program.

It's not possible to describe here all the positive effects that current CIDA projects have had on millions of Indonesian people. At Universitas Terbuka (Open University), for example, CIDA has helped the school improve its ability to deliver high-quality education by providing funding for its staff to do graduate work in Canada.

This university is a distance-learning institution that provides education for people who are not accepted at state universities because of the limited places available and who cannot attend private universities because of high tuition fees. The largest educational institution in the country, it has an enrolment of nearly 500,000 students across the country.

In addition, SRDP and EIUDP are CIDA projects aimed at improving human resources in the eastern part of Indonesia.

Sulawesi Project, EIUDP and freedom of speech

Based on our understanding of the development process in Indonesia and the goals and implementation of the Sulawesi Project, we are convinced the project has positive effects on rural inhabitants in Sulawesi.

It contributes to the Indonesian government's decentralization policy, which places increased control over planning decisions in the hands of the people who will live with those decisions.

The project's primary concern is the welfare of the rural people of the large, comparatively poor island of Sulawesi, encouraging the development of effective, relevant projects with local support. This is accomplished by improving the responsiveness and capacity of the local planning boards and other agencies, including NGOs, at the provincial, district, subdistrict and village levels, through technical aid and training.

U of G provides expertise in such areas as sustainable-development planning, land-resource assessment, management development and feasibility studies, to name a few. Water supply, sanitation, health centres, reforestation and agricultural and fisheries production are some of the critical areas that SRDP is helping to improve.

As for EIUDP, its main goal is to improve the standards of universities in the eastern part of Indonesia, such as the University of Pattimura in Ambon, the University of Samratulangi in Manado and the University of Cendrawasih in Irian Jaya.

To achieve this goal, the project sponsors lecturers from those institutions to study at Canadian universities (five of them are at U of G). This project is important for universities in eastern Indonesia because they're far behind those in the western part.

We would also like to comment on the issue of academic freedom, which was discussed in the *Ontario*.

For about a decade, we have enjoyed great academic freedom in Indonesia.

Some of the writers of this article, for example, have written critical articles for Indonesia's top daily newspapers, such as *Kompas* and *Suara Pembaruan*.

Readers familiar with these papers and Indonesian magazines such as *Tempo*, *Editor*, *Forum* and *Forum Keadilan* will know that Indonesian intellectuals, including university lecturers, enjoy considerable freedom to express criticism of the government.

In addition, as experience has shown, those who have graduated from western universities have become more constructively critical of the government and may well act as agents of change. For that reason, we believe the opportunity to study in Canada is vital for university lecturers.

In terms of organizations, the Indonesian Environmental Forum is known as being highly critical of the Indonesian government on environmental issues such as nuclear power plants and the pulp industry. The Indonesian Legal Aid Foundation is another well-known NGO that has been very critical.

In December, thousands of students went to the Indonesian parliament and the presidential palace to protest the government-sponsored lottery called SDBS. Because of this protest, the government terminated the lottery.

Another interesting development is the reunion of ex-demonstrators and human-rights activists that was held recently in Jakarta.

In his *Ontario* article, Wallace asserts that a forestry graduate has only two choices in Indonesia — "working with the regime in decimating the forests of the islands" or unemployment. If this were true, the life of people with master's and doctoral degrees in forestry in Indonesia would be very frightening. It would be better for them to apply for landed-immigrant status in Canada than to go back to Indonesia.

But is there any Indonesian with such a degree from a Canadian university who has applied for landed-immigrant status here? On the contrary, someone who graduates from a Canadian university is highly respected in Indonesia and can easily find a job in a private or state university, research agency or private company.

In conclusion, we would like to emphasize that the implementation and expression of human rights cannot be separated from the social, economic and cultural context of a particular country. In Indonesia, there has been significant progress in implementing human rights. Based on the facts outlined above, we believe that cutting aids to Indonesia or other developing countries is not the best way to improve human rights.

Asep Saefuddin is a graduate student in the Department of Population Medicine. In Indonesia, he is a lecturer at Bogor Agricultural University in Bogor.

Rilus Kinseng is a graduate student in the Department of Sociology and Anthropology. In Indonesia, he is a lecturer at Bogor Agricultural University.

Tutty Sodjakusumah is a graduate student in the Department of Rural Extension Studies. In Indonesia, she is a lecturer at the University of Padjadjaran in Bandung.

Yunardi graduated from the University of Waterloo. In Indonesia, he is a lecturer at the University of Syiah Kuala in Banda Aceh.

RESEARCH AWARDS

Prof. Terry Graham, Human Biology, received \$23,898 from Amateur Sport to study "The Effects of Caffeine and Other Methylxanthines on High-Intensity Exercise."

Prof. Pat Shewen, Veterinary Microbiology and Immunology, was awarded \$1,200 by the B.C. Cattlemen's Association through its Brigadier W.N. Bostock Memorial Research Program for her work on perinatal vaccination.

Environment Canada awarded Prof. Rod Gentry, Mathematics and Statistics, \$12,000 for the project "Homogeneity Assessments in Daily Temperature Series."

Prof. Trevor Watts, Consumer Studies, received \$2,000 from Health and Welfare, Consumer and Corporate Affairs, to do a "Literature Search on Product-Related Injuries."

Prof. Barbara Morrongiello, Psychology, was awarded a total of \$71,959 from the Hospital for Sick Children Foundation for her work on "Injury Prevention in School-Age Children."

The Institute of Chemical Science and Technology has awarded the following:

- \$46,775 to Prof. Elmer Alyea, Chemistry and Biochemistry, for the project "Catalysts for the Conversion of C5 and C6 Hydrocarbons to Maleic and Phthalic Anhydrides"; and
- \$78,800 to Prof. Warren Piers, Chemistry and Biochemistry, for his work on "Living Yttrium-Based Ziegler-Natta Olefin Polymerization Catalysts."

Prof. Andy Gordon, Environmental Biology, was awarded

\$177,233 by the Agricultural Research Institute of Ontario, the Ontario Forestry Research Institute and the Ministry of Natural Resources (MNR) to study the "Effects of Vegetation Management on Below-Ground Chemical Processes." Gordon has also received:

- \$3,000 from the Kenya-Canada High Commission general training program in support of master's student Jacinta Kimiti;
- \$13,000 from the MNR "To Provide Support to Agroforestry Planning and Development in Southern Ontario";
- \$12,212 from MNR-OFRI for the project "Selected Chemical Characteristics of Nutrient Cycles in Spruce Plantations"; and
- \$5,262 from MNR-OFRI for "Shelterwood Harvesting and Underplanting to Enhance the Northern Red Oak Component in Shallow-Site Tolerant Hardwood Forests in Central Ontario."

MNR-OFRI also awarded \$78,800 to Prof. Tom Hsiang, Environmental Biology, to study the "Impact of Anisotonic Root Disease in Conifer Plantations of Southern Ontario."

Prof. Gerry Hofstra, Environmental Biology, was awarded \$6,058 from KORD Products Ltd. for "Testing the Effect of a Cell-Pack Anti-Slip Agent on Plant Growth."

Prof. Ken Leslie, Population Medicine, has received \$34,950 from 3M-Minnesota Mining and Manufacturing Co. for "An Evaluation of the Efficacy of a

Germicidal Post-Milking Teat Dip Containing Glycerol Monolaurate, Caprylic/Capric Acids and Lactic Acid."

The Natural Sciences and Engineering Research Council strategic group has provided the following support:

- \$364,412 to Profs. Cecil Forsberg and Peter Krell Microbiology; Gordon King, Animal and Poultry Science; and John Phillips, Molecular Biology and Genetics; and K.J. Cheng of Agriculture Canada for their work on "Transgenic Manipulation of Swine for Improved Feed Utilization";
- \$184,600 to Profs. Chris Gray, Physics; Saul Goldman, Chemistry and Biochemistry; and Marc Le Maguer and Robert Lencki, Food Science; and T.K. Bose and J.M. St. Amand of the University of Quebec for "Supercritical Fluid Extraction of Value-Added Components in the Food Industry";
- \$264,150 to Profs. Bonnie Mallard, VMI; and Brian Kennedy and Brian McBride, Animal and Poultry Science, for the project "Towards Enhancing the Genetic Potential

of Canadian Dairy Cattle Through Improved Inherent Immune Responsiveness and Disease Resistance";

- \$237,900 to Profs. Roselynn Stevenson and Lucy Mutharia, Microbiology, for "Development of Surface Markers for Cells of the Salmonid Fish Immune System";
- \$370,625 to Profs. Jack Trevors and Hung Lee, Environmental Biology, and H.J. Vogel of the University of Calgary to study "Immobilization of *Pseudomonas* sp. Cells for Release into Soil to Degrade Pentachlorophenol"; and
- \$94,000 to Prof. Ron Subden, Microbiology, and Labatt Brewing Co. for "Adaptive Fermentation Control Systems." Subden also received \$33,301 from NSERC's equipment fund for this project.

Trevors was also awarded a \$6,026 collaborative research grant by NATO for his work on "Influence of Soil Properties on the Vertical Movement of Genetically Marked *Pseudomonas fluorescens* Through Large Soil Microcosms."

NSERC awarded \$195,000 to Prof. Alan Mellors, Chemistry

and Biochemistry, for his work on "The Role of the *P. Haemolytica* Glycoprotease and Other Antigens in the Pathology and Immunology of Bovine Fibrinous Pneumonia."

Prof. Kimberly Rollins, Agricultural Economics and Business, was awarded \$6,600 through the Forestry-Northern Ontario Development Agreement for "Preparation of Technical Report: Economic Analysis of White Pine Management."

OMAF-OFPRP has awarded the following:

- \$175,000 to Bill Keith, Food Science, for his work on "Non-Thermal Micro-organism Reduction and De-Infestation of Dry Particulate Foods"; and
- \$50,000 to Prof. Art Hill, Food Science, for "Preparation and Utilization of Structured Milk Fat."

OMAF also awarded \$77,886 to Prof. Don Grieve, Animal and Poultry Science, for a bull evaluation facility at the Arkell Research Centre.

Windreach Farms awarded \$2,822 to Prof. Alan Watson, director of the Arboretum, for the Windreach Environment Experience Program. □

Office of Research deadlines

March 1 is the new deadline to apply for research training awards from Health and Welfare Canada's National Health Research and Development Program. The awards are for individuals who wish to pursue a research career in public-health or health-care services in an academic or institutional setting.

Due March 1 are applications for the U of G Research Board's grants for new faculty.

March 8 is the deadline to apply for grants from the Health and Welfare Canada/NHRDP AIDS program and Wildlife Habitat Canada.

March 25 is the deadline for:

- The Social Sciences and Humanities Research Council's specialized research collections and international representation programs.
- Medical Research Council fellowships.
- Ministry of the Solicitor General race relations and policing grants.
- Bedding Plants Foundation

grants.

- Animal Health Trust of Canada grants.
- Cancer Research Institute postdoctoral fellowships.
- U.S. Cystic Fibrosis Foundation summer scholarships in epidemiology.
- Hospital For Sick Children Foundation external grants.
- Aid to Scholarly Conferences in Canada.

April 1 is the deadline to apply for the National Cancer Institute of Canada's Terry Fox team development grants and to submit letters of intent for program project grants.

Applications are due April 15 for the U of G Intercollegiate Activities Fund.

In April and May, the Toyota Foundation invites grant applications from Japanese nationals and non-Japanese who can complete the Japanese-language grant application form in Japanese.

Due April 4 are applications for the Natural Sciences and Engineering Research Council's

strategic research, group and equipment grants for research in advanced technologies and natural resources. It's also the deadline for NSERC's grants for scientific publications and strategic conference grants. Conferences must be held on or after Nov. 1.

April 4 is also the deadline to apply for the following:

- Easter Seal Research Institute research grants, doctoral training grants and postdoctoral fellowships.
- World Wildlife Fund/Wildlife Toxicology Fund research grants.

Applications are due April 22 for:

- The G. Allan Roeher Institute's awards for graduate students and major research grants.
- The External Affairs Co-operative Security Competition.
- Atkinson Charitable Foundation grants.
- Canadian Institute of Ukrainian Studies research grants and fellowships. □

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Larry Pearson of Linamar Corp. talks with student Vanessa Green, one of the organizers of a business conference geared at telling students how to survive in the changing business culture.

Photo by Martin Schwalbe, Photographic Services

Business leaders offer advice, encouragement to students

Businesses worldwide are undergoing a revolution, says Larry Pearson, president and chief operating officer of Linamar Corp., an auto-parts company based in Guelph.

Speaking at a campus business conference Feb. 16, Pearson told a crowd of 300 students that they are entering a dynamic workplace where technological advances are creating opportunities. "Well-educated people are key to the survival of this country," he said.

Pearson was one of five business leaders who addressed the student-organized conference, offering advice on how to get into business and how to thrive in the changing business culture. The other speakers were Bill Brock, vice-chair of the TD Bank; Maureen Sabia, chair of the board

of the Export Development Corporation; David Weinberg, president of CIBC Development Corp.; and Peter Edwards, manager of human resources for Labatt Ontario Breweries.

Moderator was Glenn Marshall, president of Marshall Human Resource Development and a lecturer in HAFSA.

Computer literacy, interpersonal skills and accounting are all essential skills in today's business climate, said Brock. Edwards added that it's important to "develop a passion for your industry." Weinberg offered some insights on corporate culture and how CIBC is changing its culture to "empower front-line employees to make decisions that reflect the vision and the direction of the company." He said corporate culture shapes the fate of modern companies.

Sabia noted that leadership does not equal management. "We have too many managers and not enough leaders," she said. "We need visionaries to transform the way things are done."

Pearson encouraged the students to round out their education with experience. He said engineers who spend a year or two on the

shop floor at Linamar become invaluable to the company.

While acknowledging that students will be entering a tough business world, the speakers were upbeat about the dynamism of the workplace and the opportunities created by technology.

Sabia said that despite the uncertainties of today's business climate, there are tremendous opportunities and they're more exciting than ever.

President Mordechai Rozanski, who welcomed the guests, expressed pride in the commitment and involvement the panelists have in U of G. Brock and Pearson are alumni. Brock is also chair of the Board of Governors, and Weinberg and Sabia are board members. Sabia serves as chair of the board's audit committee.

The conference organizers, students Paul Pijuan, Don Marshall, Grant Clawson and Vanessa Green, hope the conference will become an annual event to give students a regular opportunity to interact with business leaders. They worked with the business studies council and the academic vice-president's office and garnered support from several corporate sponsors. □

PUBLICATIONS

Prof. Rosalind Gibson, Family Studies, co-wrote the article "Seasonal Food Consumption Patterns and Dietary Diversity of Rural Preschool Ghanaian and Malawian Children" with Elaine Ferguson, C. Pare-Obisaw, Frema Osei-Opare, C. Lamba and Stephanie Ounpuu. The article appeared in *Ecology of Food and Nutrition* 29.

Gibson, Ferguson, Pare-Obisaw and Osei-Opare were co-authors with A.M. Stephen, J. Lehrfeld and L. Thompson of "The Zinc, Calcium, Copper, Manganese,

Nonstarch Polysaccharide and Phytate Content of 78 Locally Grown and Prepared African Foods," which was published in *Journal of Food Composition and Analysis* 6.

Retired professor Richard Carlton, Sociology and Anthropology, is author of "Folk Song, Chant and the English Symphonic Renaissance — a Case Study of Ethnic Musical Identity" in the December 1993 issue of the *International Review of the Esthetics and Sociology of Music*, which is published in Croatia. □

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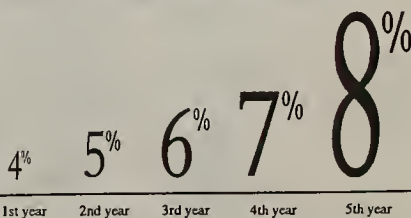
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Obituaries

Jack Crosbie

Jack Crosbie, a technician in the Department of Biomedical Sciences, died Feb. 21 at the age of 60. He had worked on campus since 1957 and is survived by his wife, Margaret, two daughters, Fiona Fazzari of Cambridge and Moira of Georgetown, and two grandchildren.

Memorial contributions in Mr. Crosbie's memory may be made to the Pet Trust Fund or the Heart and Stroke Foundation of Ontario. A tree will be planted in his memory in the Arboretum's Wall-Custance Memorial Forest Sept. 25.

Diane O'Banion

Diane O'Banion of Computing and Communications Services died Feb. 15 in Hawaii at the age of 40. She had worked on campus since 1989 as an analyst and is survived by her husband, Richard, and two sons: Evan, 2; and Ryan, 5.

A memorial mass will be held Feb. 26 at 1 p.m. at Holy Rosary Church on Martin Street in Milton. Donations in Mrs. O'Banion's memory may be made to the Henrietta Banring Breast Centre, 76 Glenville St., Toronto M5S 1B2. □



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NOTICES

Second winners

Second interim winners in Hospitality and Retail Services' "Fun in the Sun" contest are: Jane Douglas, Accounts Payable; Jack Tanner, Crop Science; Wayne Martin, Population Medicine; Carole Stewart, College of Arts; and Manfred Hansel, Animal and Poultry Science.

Travel tips

Steps to the Sea, a booklet of overseas travel tips produced by International Education Services, is available for \$4 at the Connection Desk on Level 3 of the University Centre.

Alumni ski day

The U of G Alumni Association is sponsoring an alumni ski day March 14 at Horseshoe Valley. Special prices have been arranged for the day. For more information, call Sue Lawrenson in Alumni Affairs at Ext. 6963.

OVC grad to speak

OVC '88 graduate Philip Davies of the Unite Génétique Moleculaire Murine Pasteur Institute in France will give a seminar March 11 at 10:10 a.m. in Room 1642 of the Department of Biomedical Sciences. His topic is "The Genetic Investigation of Diabetes Susceptibility Using an Animal Model: The Non-Obese Diabetic Mouse." Anyone wishing to meet with Davies can make an appointment through Prof. Anne Croy, Ext. 4915.

Genetics congress

The World Congress of Genetics Applied to Livestock Production will take place at U of G Aug. 7 to 11. Hosted by the Department of Animal and Poultry Science, the

event will draw scientists from more than 80 countries. The deadline for registration and papers is March 1. For more information, call Carol Lohuis at Ext. 2695.

OISE forum

The Ontario Institute for Studies in Education is holding a forum on "The Transition Years Program: What It Means for Ontario Education" March 2 from 1 to 3 p.m. The forum will discuss major changes being implemented in school boards across Ontario. For more information or to register, call Judy Lunney at 416-923-6641, Ext. 2360.

Restoration in Guelph

Architect Carlos Ventin discusses his work in architectural restoration in Guelph and area March 1 at 8 p.m. at St. Andrew's Church. The talk is sponsored by the Guelph Historical Society.

Nominees sought

The Association for Managing and Using Information Technology in Higher Education seeks nominations for its CAUSE Elite Award. The award recognizes exemplary leadership and excellence in information technology. For more information, write to CAUSE at 4840 Pearl East Circle, Suite 302E, Boulder, Colorado, 80301 or email to dsmith@CAUSE.colorado.edu.

Overseas programs

International Education Services (IES) on Level 4 of the University Centre has application forms for the Overseas Development Agency Program. Application deadline is April 30. IES also has information about the Korea Foundation's fellowship program and the Institute for International Co-operation and Development's global education programs. □

Discover magazine wants ideas for science stories

Discover magazine is looking for fresh ideas for science articles, says senior editor Mark Wheeler.

The magazine has a readership of about five million and covers all science subjects, striving to make the topics understandable and readable while maintaining a strong emphasis on the science, he says.

Wheeler is looking for ideas for news science stories, suggestions for scientist profiles and commentary pieces. The only things the magazine doesn't cover are science

policy and psychology.

Anyone with an idea for a story or who is interested in writing a commentary piece can contact Andrea Mudry Fawcett in External Communications at Ext. 3839, e-mail afawcett@exec.admin.uoguelph.ca, or can reply directly to Wheeler through e-mail at 0005964033@mcimail.com.

Fawcett also welcomes queries from any faculty or staff interested in contributing to other publications. □

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Fresh-water aquarium, 80 gallons, including stand, glass top and light, 823-0484 after 4 p.m.

IBM 386 laptop computer, three batteries, fax modem, VGA display, carrying case, 80-Mbyte hard drive, two-Mb RAM, Dave, Ext. 77216.

MS-801 auto data switch, used on a Roland laser printer as automatic switch box; free one-litre primary bubble standard with tripod for calibrating air volumes, Environmental Health and Safety, Ext. 3282.

FOR RENT

Two-bedroom two-storey brick house to sublet for summer, hardwood floors, high ceilings, close to downtown, \$600 a month, 824-9366.

FOR RENT

Large modern home in Vanier Drive area, close to Stone Road Mall and University, available May 1, \$1,200 a month plus utilities, David, 763-8820.

Shared accommodation in house, private bedroom and full use of house and backyard, parking, laundry, non-smokers, 30-minute walk to University, Mandy, Ext. 4096 or 763-1396.

WANTED

PC IBM-compatible or laptop computer, 386SX/486SX, preferably with software such as WordPerfect, Freelance, Karen, Ext. 3911 or 4492.

Furnished three-bedroom home for visiting New Zealand professor and family, August 1994 to January 1995, close to University and primary school, Ext. 3695 or 787-2211 after 7 p.m.

Older-style stroller with spring suspension, 1-759-6443.

WANTED

Notebook computer, color preferred, either 486 Intel or 030 Motorola, Peter or Linda, telephone or fax 822-2904.

9 x 12 Interoffice envelopes, send to University Communications, Level 4, University Centre.

AVAILABLE

Early childhood education teacher will provide day care in home for children of all ages, flexible hours, hot meals, snacks, Waverly Drive area, Christine, 823-0720 after 7 p.m.

Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing by Wednesday at noon to Linde Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

JOBS

As of Feb. 18, the following opportunities were available to on-campus employees only:

Welder/Steamfitter, Maintenance Department. Job rate: \$18.15 an hour. Probation rate: 20 cents lower than job rate.

Mail Clerk, Mail Services. Salary range: \$10.64 minimum, \$13.30 job rate, \$15.96 maximum.

Custodian 3, Housekeeping Department. Job rate: \$13.70 an hour. Probation rate: 20 cents lower than job rate.

Administrative Secretary, Department of Sociology and Anthropology, secondment or temporary full time from March 21 to Feb. 1, 1995. Normal hiring range: \$13.81 to \$15.42.

Animal Health Technician, Central Animal Facility, Animal-Care Services, temporary full time or secondment, effective immediately to April 28, 1995. Salary range: \$15.70 minimum, \$19.63

job rate, \$23.55 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

GRAD NEWS

The final oral examination of Mostafa Peighambari, an M.Sc. candidate in the Department of Veterinary Microbiology and Immunology, is March 2 at 9 a.m. in Room 101 of VMI. Title of the thesis is "Escherichia Coli Cellulitis in Broiler Chickens." The adviser is Prof. Carlton Gyles. □

CLASSIFIEDS

CALENDAR

THURSDAY, FEB. 24

Lecture - The departments of Music and French Studies present Sengalese singer and storyteller Sarah Carrère Dika discussing "The Oral Tradition in Black Africa" at 10 a.m. in MacKinnon 203.

Veterinary Microbiology and Immunology Seminar - "Evolution of Cytotoxic T Lymphocytes by Herpes Simplex Virus" is the topic of pathologist Ian York of McMaster University at 11:10 a.m. in OVC Learning Centre 1715.

Concert - Sarah Carrère Dika performs songs and poetry of Africa at noon in MacKinnon 107. Admission is free.

Lecture - Rev. Gertrude Lebans, principal of the Centre for Christian Studies in Toronto, is guest lecturer at the first in a series of presentations on "Christianity and New Family Realities" sponsored by the Campus Ministry and Harcourt Memorial United Church. It begins at 7:30 p.m. at Harcourt Church.

Drama - *The Trojan Women*, a version of Euripides' play written by Gwendolyn McEwan, continues nightly at the Inner Stage until Feb. 26. Tickets are \$9 and are available at the UC box office or at the door.

FRIDAY, FEB. 25

Nutritional Sciences Seminar - Paul Pencharz of the Hospital for Sick Children talks about "Protein Metabolism in Neonates" at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - "Hemostatic Profile of Bovine and Equine Follicular Fluid" is the topic of Manabu Yamada of Japan's Hiroshima Prefectural University at 12:10 p.m. in OVC 1642.

Geography Seminar - CSS Dean David Knight looks at "Institutionalizing International Geography" at 1 p.m. in Hutt 234.

SATURDAY, FEB. 26

The Arboretum - Maple Syrup Days run today and tomorrow and continue weekends until the end of March. Meet at the nature centre between 9:30 a.m. and 3:30 p.m.

TUESDAY, MARCH 1

Our World - "Nature 101," a culturally appropriate perspective of world issues, is the topic at 12:10 p.m. in UC 442.

FRIDAY, MARCH 4

Plant Genetics Mini-Symposium - The Department of Horticultural Science hosts an all-morning discussion of plant genetics in UC 103. Don McCarty of the University of Florida looks at "Genetic Regulation of Seed Maturation in Maize" at 10 a.m., John Ryals of Ciba Geigy in North Carolina examines the "Molecular Biology of Systemic Acquired Disease Resistance" at 10:15 a.m. and Benoit Landry of Agriculture Canada discusses "Market-Assisted Selection in Brassica" at 11:15 a.m. For more information or to arrange a meeting with the speakers, call Prof. Dave Wolyn at Ext. 3092.

Biomedical Sciences Seminar - Leslie MacLaren of the Department of Molecular Biology and Genetics considers "Cows and Integrins: An Unusual Model of Development" at 12:10 p.m. in OVC 1642.

SATURDAY, MARCH 5

The Arboretum - Maple Syrup Days run today and tomorrow and continue weekends until the end of March. Meet at the nature centre between 9:30 a.m. and 3:30 p.m.

TUESDAY, MARCH 8

Our World - Women of former Yugoslavia explain what International Women's Day meant to them and what it means today at 12:10 p.m. in UC 442.

Physics Seminar - Eric Poisson of the California Institute of Technology speaks at 4 p.m. in MacNaughton 113.

Off-Campus Housing Session - Karen Walker of Student Housing Services provides information about living off campus at 6 p.m. in the East Residences fireplace lounge.

WEDNESDAY MARCH 9

Third Age Learning - This lecture series for retired people continues at 10 a.m. at the Arboretum Centre with retired English professor John Bligh on "Ethical

Relativity and Linguistic Analysis" and at 1:30 p.m. with Prof. François Paré, French Studies, on "The Development of Language Policy in Canada."

Biochemistry Seminar - Valente Wisco of the Department of Chemistry and Biochemistry talks about "Crystallization Studies of Bovine and Yeast Tubulin" at 12:10 p.m. in MacNaughton 222.

Zoology Seminar - Jennie Chaplin looks at "Sex, Asex and Ostracods" at 4 p.m. in Axelrod 259.

Off-Campus Housing Session - Karen Walker of Student Housing Services provides information about living off campus at 6 p.m. in the Lennox-Addington fireplace lounge.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek - A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

On Thursdays, Women's Spirituality meets at 12:10 p.m. in UC 335 and the Lutheran Lunch Bunch of the Lutheran Students' Movement meets at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533.

Multifaith calendar

On Feb. 25, Purim celebrates the victory of the Jewish people over an oppressive ruler. It is a day of feasting and a time for giving gifts to friends, giving to the poor and socializing.

March 2 is Ala, the 19th and final month of the Baha'i year, when a 19-day fast begins in preparation for Naw Ruz. Those over 15 and in good health are expected to abstain from food and drink from sunrise to sunset.

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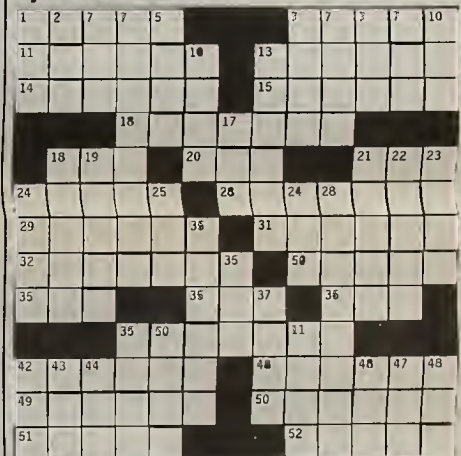


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6. B.C. INDIAN
11. Infringe on copyrights
13. Brought to naught
14. Smashed into
15. Spread out
16. Petite pianos
18. Pen friend
20. Wallet bill
21. Pouch
24. Ledger examination
26. NATIONAL ANTHEM
29. Set apart
31. Lapse in continuity
32. Clinking sounds
34. Cask stopper
35. In the manner of
36. Lou's partner
38. WHERE OTTAWA IS: ABBR.
39. Cocker
42. ALBERTA PARK
45. Crossruff in whist
49. Pungent bulbs
50. Provide with toggery
51. Pastry shells
52. PGA champ

DOWN

1. Mo. for fools
2. Actress Farrow
3. Place for a buckler
4. HALIBURTON CHARACTER
5. Ladder rung
6. Owl sound
7. Suffers ill health
8. Out of sorts
9. After cee
10. Combine numbers
12. Make changes
13. QUEBEC LANGUAGE
17. Recent comb. form
18. Eye opening
19. Turkish city
21. Lustrous fabric
22. Movie rating
23. Court suit
24. "The Thin Man" dog
25. — Aviv
27. Three-toed sloths
28. Cream-filled pastry
30. Excludes
33. Light source
37. Part of DJ
39. Locate accurately
40. Fountain and ball-point
41. Slimy fish
42. Write hurriedly
43. Anecdote collection
44. Letter opener
46. — CATHERINE, QUE.
47. Cry of surprise
48. Get hitched

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FOCUS

Olympic medalist keeps swimmers on solid ground

by Maurice Oishi
University Communications

The 10-year distance between Olympic gold and the U of G gold pool was a natural progression for Anne Ottenbrite.

The assistant coach of the Gryphon swim team brought back a gold medal, a silver and a bronze from the Los Angeles Olympics in 1984. Now she coaches for the Guelph Marlins swim club and the Gryphons.

A tough transition? "Not at all," says Ottenbrite. "I guess that's the kind of person I am. Once I got my Olympic medal, I didn't want to swim competitively internationally any more. I just wanted to get on with things — to find the same kind of love I had for swimming. There's nothing like being in your element."

For Ottenbrite, coaching is that element. Transitions in her life have come relatively easily, thanks to talent and a positive outlook. The talent is inherent, but outlook you can teach, she says. As a swimmer, "I was never hard on myself. And it's just something I try to enforce on my kids. Negativity is counterproductive and a waste of so much energy."

How to polish the intangibles — reinforce the positive in her swimmers — is what Ottenbrite tries to extract from her own experience. She was 13 when she first joined a swim club in Oshawa. Training with the club and in her uncle's backyard pool, she made the national swim team the following year. "I didn't even know how to use a time clock," she recalls.

Swimming for a small club in the beginning offered advantages. "I'm fortunate that my coach didn't fool with my stroke,"



With three Olympic medals under her belt, swimming coach Anne Ottenbrite knows what it takes to be a winner.

Photo by Maurice Oishi, University Communications

she says. "It's called the wave stroke now — it's very popular. But back then, most coaches would have tried to train it out of you."

The coaching lesson she learned? "If somebody's unorthodox but efficient, I can

see that and feel it. And I won't try to change it."

Another experience that shored up Ottenbrite's thinking as a coach occurred just as she was preparing for the Olympics. Showing off a new set of shoes to a friend,

she dislocated her knee. At 18, "I thought my world was over," she says. But she continued to prepare mentally and physically. Newly developed arm strength compensated for the loss of her leg power.

It was more than a lesson in physical training, however, because it drove home the idea of the importance of "mental work," she says. As a coach, she stresses the importance of meditation and visualization. And she gets results that extend beyond the pool. "Parents come up to me and say they see a change in the outlook of their kids."

After her Olympic success, Ottenbrite went to the University of Southern California on a swimming scholarship. The emphasis in training was on mileage in the pool rather than the subtleties of technique — burnout over variety. The experience reinforced all the concepts she had learned up until then.

In 1989, she started coaching at the inter-collegiate level at Wilfrid Laurier University, where she was a student. That's where "I fell in love with coaching," she says. It's also where she met Marlin Muylaert, coach of the Gryphon men's hockey team. The two were married in 1991. Last fall, she came to U of G.

Being a self-confessed natural might not prepare an athlete for what some conceive as the task-mastering job of coaching. Her approach is notably less authoritarian. But she says the most important lesson she brings to the pool is that swimming is, in the end, just a sport. "People want to make it into an entire lifestyle. And that's how you get the drugs and the Tonya Harding stories. Some do it to make a living. I did it because I love the sport." □



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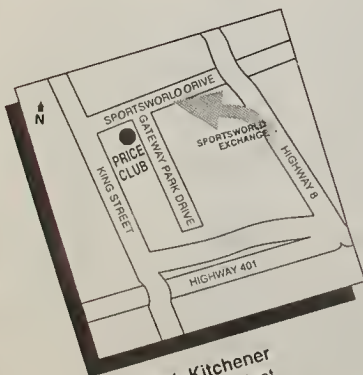
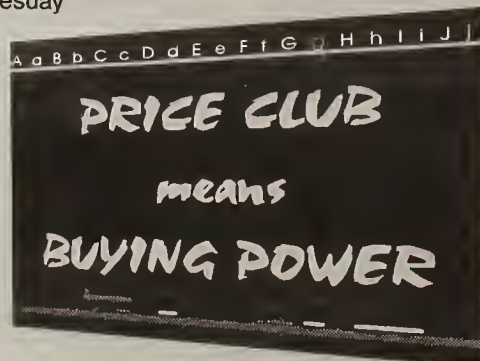
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Volume 38 No. 8

University of Guelph, Guelph, Ontario

March 2, 1994

FIRST GLANCE

And the winners are . . .

More than 450 people responded to the *At Guelph* readership survey. With the help of the Student Environment Study Group, the results are now being analysed, and we will have a report in an upcoming issue.

We have four winners in our draw. Gayle Ecker of the Equine Research Centre and retiree Kay Boyer of Guelph, who was employed at U of G for 35 years in the Department of Agricultural Economics and Business, have won gift certificates to the Whippetree Restaurant. Gift certificates for Campus Junction go to undergraduate student Sian French and U of G alumnus Dave Huer of Guelph.

Thank you all for your comments and suggestions.

Meeting cancelled

The March 4 meeting of the Strategic Planning Commission has been cancelled. The next session will be held March 9 at 4 p.m. in Room 442 of the University Centre. A meeting for students will be held March 10 at 5 p.m. in Room 1707 of the OVC Learning Centre.

Inside:

Making demands on children helps them learn to co-operate 3

Can teaching be documented? 4

Environmental rules worry U.S. farmers . . . 5

Line dancing: Don't grab your partner 8

Thought for the week

I am a part of all that I have read.

John Kieran



What a blast!

No, this isn't a scene from *The Terminator*. It's glassblower Yves Savorel of the Department of Chemistry and Biochemistry facing

the heat as he makes a specialized funnel for a researcher at Wilfrid Laurier University. The 0.5-centimetre-thick glass requires heat-

ing to 1,800 C for Savorel to ply his trade. If you have glass-blowing needs, call him at Ext. 3942.

Photo by Maurice Oishi

One common-access card under study

by Maurice Oishi
University Communications

The days of a wallet overstuffed with cards may be coming to an end at U of G.

The University currently issues 11 cards, including employee and student ID cards, the Express Card and the Athletics Centre membership card. Prof. Ken Grant, Economics, heads a committee to investigate the feasibility of distilling some of the services covered by these cards into one.

"The thrust is to make it more convenient for the user," says Grant, "but there are cost ramifications as well." This includes the cost of producing and administering each card. "Ultimately, the desirability of a common-access card must be judged within a systems and financial context," he says.

The committee will look at whether the range of U of G services can be fronted by a single photo ID card embossed with a magnetic strip, says Grant, him-

self the bearer of six University-issued cards.

He notes that the goal is to reduce the number of cards, not to consolidate the administration of University services. The new card

will supply only common access to various services, he says.

This is an important security consideration because keeping automated systems separate minimizes the chance of unauthorized

access to user information or services, he says. At the same time, replacing a single card after it's lost or stolen is more convenient and secure for the user.

See CARD on page 2

Sulawesi Project focus of public session

The Senate Committee on International Activities (SCIA) will hold a public session March 17 to gather information on the Sulawesi Regional Development Project (SRDP) from the University community. The session will run from 1 to 4 p.m. in Room 103 of the University Centre.

SCIA is gathering information to formulate a response to an external review document on U of G's involvement in the Sulawesi Project. The document contains 16 recommendations pertaining both to Guelph's participation in SRDP and in international projects in general. SCIA will

present its response to the recommendations at the April meeting of Senate.

On Feb. 1, Senate approved release of the review document to the University community and resolved that written comments should be solicited from interested parties. The March 17 session is designed to ensure maximum community input into SCIA's response to the report.

SCIA vice-chair Wayne Marsh of the Office of Research will moderate the session. It will be structured to allow individual or group presentations of 10

minutes, with another five minutes set aside for the committee to ask questions. If time permits at the end of the presentations, comments will be accepted from the floor. Speakers are asked to limit their presentation to the 16 recommendations in the external review document.

People wishing to make a formal presentation at this session must submit their name to the Senate Office on Level 4 of the University Centre, Ext. 6758, by March 14. Copies of the external review document are available in the Senate Office. □



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Card could
give access
to computers

Continued from page 1

At a minimum, the unified card would provide a form of identification, he says. Other services would be available to users depending on their needs and preferences.

Some services, however, are not immediately amenable to a common-access card, says Grant. The Bank of Montreal owns and administers the U of G affinity MasterCard, and Master Life provides the employee benefits cards.

If a common University card were implemented, it would probably tap into fewer than half a dozen campus services at first, he says. But over time, it could provide access to a full range of services, including some not currently covered by any card.

A common-access card is rapidly becoming the norm on large U.S. campuses. In Canada, the University of Quebec at Montreal and the University of Western Ontario have already gone a similar route. Depending on the campus, a single card with a magnetic strip provides access to computers, replaces building and room keys and eliminates the need for quarters at coin-operated laundries.

The extent of automated services at U of G may ease conversion to a single card, says Grant. "We're really well positioned to have a common-access card if we want it."

The 23-member University ID Card Committee invites comments or suggestions. For more information, call Grant at Ext. 2187. □



Keep the faiths

Rev. Phil Nazar blesses some of the people gathered at the Feb. 21 official opening of the Interfaith Resource Centre on Level 3 of the University Centre. Members of various

faiths were in attendance at the event. From left are Prof. Michael Sobol, Department of Psychology; Zyed Ziauddin, undergraduate student Janice Canning; Rev. Lucy Reid;

graduate student Joe Woods; Nazar; Prof. O.P. Dwivedi, Political Studies; and Rev. Ed Den Haan.

Photo by Maurice Oishi, University Communications

VISITORS

Rural-development specialist to spark dialogue

John Bryden, director of the Arkelton Trust in Britain, is Winegard Visiting Professor in the University School of Rural Planning and Development until the end of April.

Widely recognized for his research on the role of rural change and rural policy, Bryden recently

completed a study of farm-household adjustment in western Europe between 1981 and 1991. His work has spawned an interdisciplinary and comparative approach to broad-ranging contemporary issues in rural society.

While at U of G, Bryden hopes to initiate dialogue on rural-com-

munity development among the various disciplines on campus. These disciplines bring a plurality of concepts and definitions to issues such as sustainable development and policy analysis and methodologies, he says. But a broad perspective will only develop if each area of study shares and critically synthesizes the insights of others.

Bryden also hopes his visit will promote a new Guelph PhD in rural studies.

In March and April, he will present four public seminars. The first—scheduled for March 11—will look at the effects of the post-industrial age on rural life. It will

run from 10 a.m. to 4 p.m. in the OVC Learning Centre.

On March 25, he will discuss institutional change and the role of the state in sustainable rural development from 10 a.m. to 4 p.m. in the centre.

An April 13 seminar will synthesize the issues raised in the March seminars. On April 27, Bryden will address the implications for education of future changes in rural areas.

A TCosy conference called "SRC" is also open to those interested in these discussion areas. Bryden can be reached at Ext. 3536. □

Consumer expert to speak

Gordon Foxall, a British expert on consumer behavior, will give a free public lecture on "The Innovative Consumer" March 9 at 7:30 p.m. in Room 149 of Macdonald Hall.

Foxall, who will be on campus March 4 to 11 as the Winegard Visiting Professor in FACS, will also give a series of lectures and meet with faculty and students.

A professor at the University of Birmingham, Foxall believes there are two ways to create a customer—through innovation and marketing. He also believes the role of business schools is to study the nature of consumer behavior and marketing.

More than 20 years ago, recognizing the importance of under-

standing consumer behavior in preparing students for careers in business and government, U of G established the Department of Consumer Studies. This pioneering move has been emulated by many universities in North America and in Foxall's unit at Birmingham.

From March 8 to 11, Foxall will give a series of lectures to undergraduate and graduate students on consumer behavior, science and interpretation in consumer research, cognitive styles of marketing and non-marketing managers, and user-initiated innovation.

Anyone wishing to meet with Foxall should call Linda Georges at Ext. 6129. □

On equity in development

Lina Fruzzetti, chair of the department of anthropology at Brown University, will visit campus March 10 and 11 as part of U of G's Women and Development Distinguished Speakers Series.

She will speak on "Equity in Development: Gender and National Reconstruction" March 10 at 7 p.m. in OVC 171.

Frizzetti has carried out

anthropological fieldwork in Bengal and Sudan and has worked with grassroots women's organizations in Delhi and Calcutta, India.

She is hosted by the women in international activities subcommittee. Anyone interested in meeting with Frizzetti should contact Susan Rinkus at Ext. 6915 or srinkus@uoguelph.ca. □

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Land-use commission sees recommendations put into federal action

by Margaret Boyd
University Communications

After a two-year stint with a commission of inquiry into land-use planning, Prof. George Penfold, University School of Rural Planning and Development, is pleased to watch the fruits of his labors unfold.

The three-person Sewell Commission was asked to look at public and private interests in land-use development and make recommendations to improve the planning system in Ontario. In addition to Penfold, it consisted of former Toronto mayor John Sewell and Toby Vigod, formerly of the Canadian Environmental Law Association.

The government is moving forward with most of the commission's core recommendations, says Penfold, and legislation is expected to be tabled in the spring session and could be in place by autumn. And some recommendations dealing with administrative changes and policies are already being carried out.

Took issues seriously

"The government obviously took the issues and our recommendations seriously," he says.

This was part of the plan. When Penfold and his colleagues accepted the two-year post, they were determined to work for effective change. They didn't want it to become "a government initiative that got derailed between the process of developing ideas and their implementation."

To that end, the commission developed its recommendations through an extensive process of public consultation. It also stayed in place three months beyond the tabling of the final report last June. The trio continued to advise the government during the review of the report and the preparations of the cabinet submission dealing with it. And Penfold and Sewell still meet to assist the Ministry of Municipal Affairs as questions arise over implementation.

More authority

A key recommendation of the commission will give municipalities more authority over land-use issues, says Penfold. "Some councils tend to duck hard decisions and pass them to the province or the Ontario Municipal Board. That is not to be the case in the future."

The most pervasive problem relating to land-use — voiced repeatedly at hearings across Ontario — is a "lack of trust," he says. Developers don't trust environmentalists, planners don't trust developers and the public doesn't trust their local council.

"The six or seven major interests in planning have a difficult time getting together to resolve issues and to feel satisfied their concerns are adequately addressed."

Common issues of concern in rural areas ranged from development policy to balancing agricultural land, natural resources and environmental protection with rural development. Urban concerns included environmental

protection, quality of urban development and efficiency of land use and services.

The commission always considered environmental protection important, says Penfold. "One mistake of the past was to say yes to trade-offs and accept the fact of environmental degradation. It becomes deficit planning in a deficit. Those costs will eventually have to be paid."

The commission took the approach that all costs must be considered from the outset. There was much emphasis on process, on helping people understand the kinds of consequences that might occur, he says. "In the public interest, trade-offs don't make sense in the longer term."

Utopian environment

Working on the commission was an "utopian environment" for Penfold because of the high level of support for the project. It was rewarding to work on one project for two years and to be able to observe the planning system from the position of an independent commission, he says.

"It was a unique experience. It was great fun and I learned a lot from it."

Ensconced once again on campus, Penfold is happy to be back dealing with students and the routine of academia. Over the next few years, he will be an interested observer in the changes effected by the commission's work.

"Ultimately, in this kind of change, it comes down to people," he says. "The issue in terms of implementation is how good a job we did and how good a job we did in considering different points of view and building recommendations the people can agree to."

Put research into action, prof urges

Time away from the academic world gave Prof. George Penfold new insights into the relevance of university research.

He believes a "hugely important step" — the transforming of research into action — is being neglected by the academics doing the research. There may be a real opportunity for the University to become a more active player in terms of public policy and new technology, he says.

"Most of what we focus on in the University as research is actually information. What we don't often deal with well is that information is much different than decisions. We make too many assumptions about what research means. If research is good, we assume it will be implemented."

Researchers need to think through more clearly what it means to put results of research into action, says Penfold. He believes they should be playing a bigger role in the process of implementing their research into society. □



TSS units join forces in Day Hall

Teaching Support Services (TSS) officially opened its new combined facilities in Day Hall Feb. 25. Above, Prof. Ernie McFarland, Physics, left, and Prof. Connie Rooke, associate academic vice-president, talk with TSS director Don McIntosh in the new teaching resource area.

Photo by Maurice Olshi, University Communications

Early demands help children learn to co-operate, study finds

by Margaret Boyd
University Communications

Parents make many demands on young children in the form of hundreds of commands and requests each day. These demands help children regulate their behavior and also influence how well they interact with others, says Prof. Leon Kuczynski, Family Studies.

Kuczynski says parental demands are the context in which children learn competent behavior. The types of commands emphasized by parents and the characteristics of the children are the keys.

"Young kids are generally eager to co-operate," he says, "but a parent has to believe it is good for a child because it takes a lot of parental effort and participation to ask a two-year-old to clean up."

In a five-year study, Kuczynski looked at the socialization interactions of 71 mothers and their children aged two to three. He then looked at the same children at age five to determine how co-operative they had become.

He divides parental requests into three categories:

- demands for competent action, including commands to play, do chores or help others;
 - demands for appropriate behavior that deal with rules and standards for correct personal and social behavior; and
 - caretaking demands dealing with physical needs and safety.
- He also looked at whether parental requests were "dos" or "don'ts" because they either encourage or inhibit children's behavior.

Kuczynski found that parents change their demands as children age. By the time children are three, parents shift from demands focused on physical care and protecting objects to a new emphasis on regulating social interactions and asking for help with chores. The kinds of demands

parents make also depend on how co-operative or difficult their children are. Parents are less likely to ask oppositional children to do chores.

"Parents give up trying if the child keeps resisting," he says. "But this sets off a vicious cycle because it deprives them of a context to learn competent behavior for the future."

When the children in Kuczynski's study turned five, he observed them again to find out how compliant they were and

behaviors during the give and take of harmonious parent-child interaction," says Kuczynski. "In a sense, parents take advantage of children's early willingness to co-operate to train them in competent behavior."

It takes a special kind of parent to make that effort. A personality difference in mothers — whether their attitudes to child rearing were authoritative or authoritarian — was also related to the types of demands they made and to children's level of com-



whether their parents reported behavior problems. He found a relationship between early demands and children's subsequent level of social competence. The more parents emphasize "do" commands and demands for competent action, the more co-operative and less likely their children are to have behavior problems. Emphasis on "don'ts" and socially appropriate behavior results in less social competence at age five.

"I think that parents foster a habit of co-operation and responsible behavior very early in life by asking children to perform helpful

penance. Authoritative mothers believe in using reasoning and promoting independence and responsibility in their children; authoritarian mothers use force and discourage give and take.

"It was the authoritative mothers who more often demanded competent behavior but avoided emphasizing appropriate behavior and prohibitions," Kuczynski says.

His research was sponsored by the U.S. National Institute of Mental Health and the Social Sciences and Humanities Research Council of Canada.

COMMENTARY

Providing evidence of teaching quality

Editor's note: Teaching and Support Services (TSS) is sponsoring a faculty forum on peer and student evaluation of teaching March 8 at noon in Room 442 of the University Centre. TSS was directed by U of G's Ad Hoc Task Force to Respond to the Smith Commission to stimulate discussion of peer evaluation, renew discussion of the teaching dossier and examine with departments how student evaluation data are being collected. The following is an edited version of a discussion paper written by Mei Fei Elrick of TSS. Anyone interested in the bibliography should call her at Ext. 3522.

Peer review of teaching

Many academics are concerned about the lack of congruence between mission statements that claim universities seek excellence in teaching and research and the reward structure, which favors research.

They say teaching is not valued or rewarded as highly because it is isolated from the community of peers. A realistic solution would be to ensure that teaching is displayed to peers.

Because teaching is currently a private transaction between faculty and students, it's difficult to assess its quality. As it becomes part of the public academic exchange, it will be possible to assess it more comprehensively. More important, as teaching becomes part of the collegial dialogue, it will become more central in the academic culture.

To promote this cultural shift, it's been suggested that faculty make a case for their teaching. The need for academics to offer evidence of teaching as they offer evidence of research was first suggested by the Canadian Association of University Teachers (CAUT). CAUT recommends a dossier not longer than three pages that is part of the curriculum vitae.

Accessible to colleagues

There is growing interest in finding ways to make teaching accessible to colleagues. To begin the process, one educator urges departments to decide what evidence to include and what criteria to use in considering an individual's teaching. This concurs with U of G's faculty policy, which gives colleges responsibility for devising a form for faculty to document activities.

As faculty develop their case/dossier/portfolio, they will be creating teaching artifacts as they now create research artifacts. When the invisible becomes visible, academic work becomes available for collegial discussion and critique, says one author. This is how research develops, and teaching must follow the same path.

Although some educators believe peers must review one another's work, it has been suggested that peer review components of teaching evaluations are a major source of problems and confusion.

Although some might argue that peers already review teaching at departmental promotion and tenure committee meetings, others wonder how and on what basis decisions are made. Committees rarely collect evidence systematically, but tend to re-evaluate student evaluations and chance comments.

Studies show that committee members are influenced by an individual's research record when they evaluate teaching and are influenced by their perceptions of the individual in other settings. They also think a departmental seminar given to graduate students and colleagues reveals much about undergraduate teaching. One author says this is like judging a person's ability to play basketball by watching the individual practice free throws in a playground.

Peer review of research is known to be subjective, but academics recognize that someone who understands the discipline must evaluate their research. Subjectivity is

minimized by having several peer reviewers. It's been suggested that universities should do the same for teaching.

Who is a peer? In teaching, peers tend to be those in the same department, but in research, they're members of an international community. Departments need to decide whether their committees will review the teaching artifacts or whether they could be sent to colleagues at other universities. As with research, a department might want an external review of teaching when the individual is being considered for tenure or promotion to full professor.

Whatever departments decide, the disciplines' primacy makes it critical that the members of those scholarly communities are involved in the assessment.

Is the chair a peer? Departments need to consider how and what evidence the chair will gather and how the chair's role as manager might conflict with a role as peer.

Many equate peer review of teaching with the classroom visit, but this is fraught with problems. Unless visits are frequent and guided by policies and procedures, they may not provide good evidence.

One author found that peer evaluations based on classroom visits tend to be high and don't correlate well with student or self-evaluations. Another wonders if faculty, hoping for a degree of reciprocity, are loath to be critical. Or perhaps they think the presence of a colleague affects teaching dramatically, making the performance they're observing unrepresentative.

Another danger in relying on the classroom visit is the message it sends that teaching equals classroom performance. This leaves unexamined other aspects of teaching that colleagues are capable of assessing.

What might peers review? One U.S. university suggests colleagues evaluate those aspects of teaching that require knowledge of the discipline. They could determine whether instructors are current in their fields, assess the academic value of a course and evaluate its integration in the program. Course materials thus become evidence that help peers make judgments.

Departments need criteria for evaluating materials. Academics suggest asking if the materials are relevant, accurate, appropriate for the students' level, clearly presented and ordered logically and whether the materials contribute to the course's effectiveness.

If colleagues reviewing course materials wonder whether they were written to impress them or were actually used in the course, they need only ask the students.

Evidence of teaching quality is currently gathered primarily from students. Although research indicates students can evaluate some aspects of teaching, faculty remain unconvinced. This may be because the course and teaching qualities that faculty value are precisely those that students cannot assess. If students, who are unable to evaluate what is taught, are teaching's only evaluators, can a university claim to be evaluating teaching?

Before academics begin evaluating one another's teaching, they need to talk about teaching. Right now, this rarely occurs. Without this exchange, faculty wonder about the assessment's criteria. Criteria for evaluating research are much more clear.

In addition, academic don't like to have their teaching evaluated by peers whose teaching is unknown or known to be poor. Their understanding that peers who review their research are engaged successfully in that work contributes to their acceptance of the process and the results.

Academics and academic administrators believe peer review determines and maintains excellence. But even as they accept this value system, peers do not review university teaching. As a result, teaching lacks the collegial exchange and critical assessment that keeps research vital.

A sample case/dossier/portfolio

CAUT's initial advice that the teaching dossier be no more than three pages assuages the fear that teaching evidence will bury P&T committees in paper. The dossier could include a teaching statement in which faculty describe course goals, course revisions, innovations tried, circumstances that affect student evaluations, etc. In addition, the dossier could include the following:

- undergraduate courses taught;
- graduate courses taught;
- undergraduate academic advising;
- honors thesis advising;
- graduate advising;
- teaching awards;
- grants received for teaching innovations;
- interdisciplinary/team teaching;
- peer consultation/review of teaching;
- workshops, talks, seminars and conference presentations;
- external contributions to teaching;
- administration;
- contributions to curriculum committees, Senate committees, teaching and learning committees and cross-campus programs;
- articles/books; and
- course materials.

Student evaluation of teaching

Research indicates that students can judge how well instructors are prepared, how effectively they make use of class time, how well they communicate course material and how interested they are in the material and student learning. Still, many faculty believe that teachers who entertain and give high grades rather than expect high-quality work are the ones who get good evaluations.

In reality, one study found that faculty who receive better ratings also have high expectations for student learning, teach a difficult course and may or may not give high grades. Another found that students' learning gains correlate strongly with the rankings they give faculty.

One possible source of bias in student evaluations is the discipline being taught. There is evidence that faculty in the humanities receive the highest ratings, those in social sciences receive medium ratings and those in science and mathematics, with the exception of some biological sciences, receive the lowest.

To address this, one author suggests institutions develop their own norms using three standard questions that would probe the instructor's general effectiveness, the educational value of the course and how much the students thought they learned.

Another possible source of bias is the administration of the questionnaire. If, for example, the instructor administers the questionnaire and is in the room, students will rank the individual more highly. The instructor should therefore neither ad-

minister the questionnaire nor be present.

Students need to be told in the instructions how the questionnaire data will be used. They're more willing to evaluate teaching if they believe their rankings will cause no harm and will have some positive effect. In addition, if they think the faculty member will see the results before grades are recorded, their comments are less valid.

To monitor administrative bias, it's been suggested that the questionnaire ask whether the instructor was present and if the instructions were clear.

The questionnaire should be administered during class time near the end of the semester, but not at the same time as an examination. It's been shown that students who complete a questionnaire before or after a major exam respond inconsistently.

What is the problem with student evaluations? Student perceptions of teaching carry great weight, and this worries some faculty. If P&T committees have little knowledge of the research on student evaluations, they may misinterpret the data.

What questions can students answer? Students give valid, reliable evaluations if they're asked whether course goals were met, if the evaluations were consistent with the goals, if the pace allowed them to comprehend the material, if examples were well chosen, if the individual was open to questions and if the assignments challenged them. Students cannot answer questions about the individual's discipline knowledge.

Legal implications

One author expresses concern about asking students questions related to a teacher's style. He says instructor enthusiasm should not be included, noting it would not hold up in court if challenged. He also says students shouldn't be asked to compare one instructor with others, because the individual might teach quite well, but everyone else is better. That, too, could have legal implications.

This same author has designed a first-stage form with four initial questions that defuse student issues such as classroom, workload and interest. The rest of the questionnaire includes explicit statements about teaching. This questionnaire is set on an 11-point scale to give scope for excellent teachers.

Faculty generally find student comments about a course and their teaching more useful than rankings. Although students sometimes word negative comments in ways that make it difficult to know what to change, they also give constructive feedback if they believe it will be used to improve an individual's teaching. Comments tend to be less reliable and numerous if they think these will harm the faculty member.

Students are concerned about anonymity and tend to make fewer comments and be less critical when asked to sign their comments. It has been suggested that departments type comments before they are given to the faculty member, and students should be told this procedure will be followed.

To gather comments, a U.S. university suggests asking students several open-ended questions that probe their perception of what they learned. Asking them to respond to these more specific questions gives focus to the comments and may lessen the possibility of unhelpful, negative comments.

When the rankings, comments and specific behaviors are linked, they become more understandable. It has been suggested that because most evaluation systems must serve both formative and summative purposes, it's necessary to collect evidence that enables faculty to develop and departmental committees to make decisions. □



Prof. Tom Funk designed the biggest-ever general-information farm survey.
Photo by Martin Schwalbe, Photographic Services

Environmental rules challenge for farmers

by Steve O'Neill
Office of Research

Meeting new environmental requirements is the biggest challenge facing top U.S. farmers, according to a survey designed by Prof. Tom Funk, Agricultural Economics and Business.

Using a database provided by the leading U.S. farm publication *The Farm Journal*, Funk targeted American corn-soybean, cotton, wheat, dairy, beef and hog farmers with gross revenues of more than \$500,000 a year.

He asked eight pages of questions — making it the biggest-ever general-information farm survey — finishing with: "What is the biggest issue you will face in the next five years?" Even without a checklist for prompting, 75 per cent of the 4,000 respondents said meeting environmental requirements was their greatest concern. "We expected environmental regulations would be an issue, but we didn't realize the magnitude," says Funk. "Even the most successful farmers see them as a real challenge."

He believes this concern could lead to a new growth industry. "Demand is going to increase for environmental consultants. Farmers need help from people who fully understand the regulations and requirements."

The questionnaire, sponsored by the Centre for Agribusiness at Indiana's Purdue University, sought farmers' opinions on such subjects as anticipated changes in their farms, their behavior as buyers, communication with industry and the distribution of products and services to them.

The questions included whether farmers had plans to expand production (most do) and how many family members and employees are involved on the farm (10 is the typical number).

More in-depth questions probed such subjects as the role of the farmer's spouse, which Funk characterizes as "a very active one, especially in the smaller farms," and how farmers view farming itself. "We found that most of the respondents look at farming not as a business, but a way of life," he says.

After the survey results were compiled, Purdue University presented them at a "Marketing to the Commercial Farmer" conference in November. Representatives from 200 agribusiness companies turned out to hear the findings. Of special interest to the companies were the following:

- Most farmers delegate buying to several different employees, so successful sellers need to find the specific person on each farm responsible for buying their particular product.
- A significant number of farmers prefer buying from manufacturers rather than from an intermediary and predict there will be more direct buying in the future.
- Farmers are hungry for product information and prefer to receive it by direct mail, rather than through avenues such as telemarketing. "Farmers feel the same way about it that almost everyone else does," says Funk. "They don't like it... mainly because it's seldom done well."

The success of this project has sparked a similar survey in Canada. Funk is leading the effort with support from the Canadian farm publications *Grainews*, *Country Guide*, *Farm and Country* and *Le Bulletin*, as well as U of G.

Questionnaires are being distributed, and Funk hopes to have results compiled by next fall, when a conference similar to Purdue's will be held in Guelph. □

Engineering software captures Ontario design award for student

A fourth-year U of G environmental engineering student was among the top winners at the 1994 Ontario Engineering Competition held on campus Feb. 18 to 20.

Rob James won in the entrepreneurial design category for his computer software program, PCSWMM4 for Windows. Other categories in the competition, which drew 100 student participants from across the province, were corporate design, editorial communications, explanatory communications and parliamentary debate.

James's winning entry is an interface program for the U.S. Environmental Protection Agency's SWMM4 Storm-Water Management Model.

Designed for engineers involved in urban development and pollution control for surface-water drainage, SWMM4 can simulate storm systems, flood systems, pollution and pollution-control systems.

But it's a complex program that has a long learning curve and requires many hours to interpret the



Rob James

results, says James. His interface makes SWMM4 more user friendly and efficient. "It helps get beginners up to speed faster and helps experts interpret the output faster," he says.

PCSWMM4 for Windows contains an automatic sensitivity analysis tool that tells users which parameters among the thousands contained in a model are the most important to their study. Instead of examining the significance of

each parameter individually, says James, users "can just hit a button and go for lunch and when they come back, it's all done."

The interface allows engineers to analyse their data about six or seven times faster than the original program, he says. It also increases their accuracy. That translates into big savings in terms of time and money.

And there's more to come, says James, who is the son of Prof. Bill James, Engineering. "The interface is a platform for a number of tools — sensitivity is just the first major one."

PCSWMM4 is actually an updated version of a program Rob James designed about a year ago. The original interface already has 87 users worldwide, including government agencies and consulting engineers.

Over the past year, he has led short courses on his program in Canada, the United States and Morocco. The Moroccan city of Tetouan, which has a population of 600,000, has used the interface to design a storm sewer system. □

FUNDING

Drug strategy

Health and Welfare Canada's National Health Research and Development Program has set up a special funding competition as part of Phase 2 of Canada's Drug Strategy. It is supporting research aimed at reducing the harm caused by substance abuse to individuals, families and communities.

Proposals must target one or more of the following groups: children, youth and young adults; women; seniors; off-reserve aboriginal people; and people who drive under the influence of alcohol and drugs. Applications are due in the Office of Research March 31.

Independent seniors

The Seniors' Independence Research Program supports research with a balanced emphasis on social, economic and health determinants of independence for seniors. Up to 11 programs of applied research will be funded in four theme areas: financial, income and fiscal issues; evaluation

and comparison of programs, systems, models of care, services and activities designed to support independence of seniors; medication use; and mutual aid/self-help and self-care. Deadline for applications is March 23. □

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OUR COMMUNITY

NOTICES

A night at the opera

The U of G Alumni Association is arranging a trip to see Opera Hamilton's production of *Macbeth* April 23 at 8 p.m. The association will host a reception before the performance. Discounted tickets are \$27.50 per person for U of G alumni and friends. For tickets or information, call Sue Lawrenson at Alumni House, Ext. 6963.

Calling CIDA alumni

The Canadian Bureau of International Education is asking that past winners of awards from the Canadian International Development Agency write letters to help fight proposed budget cuts. Letter writers should describe their award and how it helped them achieve their goals. Write to CIDA president Huguette Labelle, 200 Promenade du Portage, Hull, Que. K1A 0G4, fax 819-953-3352.

Back to Bach

The Guelph Chamber Music Society will present J.S. Bach's *St. John Passion* March 27 at 3 p.m. in St. George's Church. The Guelph Chamber Choir will be accompanied by L'Orchestre de l'harmonie universelle ancienne. Tickets are \$15 general, \$12 for students and seniors, and are available at the UC box office.

Top teachers sought

The Council for the Advancement and Support of Education seeks nominations for the 1994 Canadian Professor of the Year. The deadline for applications is May 3. For more information, call Kim Hughes in Washington, D.C., at 202-328-5964.

International fellowship

The Aga Khan Foundation Canada offers a fellowship in international development management open to Canadian citizens and landed immigrants aged 18 to 28. Application deadline is March 14. Details are available at the International Education Services InfoCentre on Level 4 of the University Centre.

International expo

AIESEC is hosting an international exposition March 12 from 10 a.m. to 4:30 p.m. at the College Inn in Guelph. Admission is \$2.

OCA auctions art

The Ontario College of Art will hold its ninth annual silent art auction and sale March 22 at the Art Gallery of Ontario. Viewing begins at 6 p.m., bidding at 6:30 p.m. Tickets are \$30. For more information, call Bruce Bishop at 416-977-1854.

Secretaries to meet

The Guelph chapter of Professional Secretaries International will meet March 9 at the Cutten Club. Dinner at 6 p.m. will be followed by a talk on brainstorming by Michael Moore of W.C. Wood Co. Ltd. and a business meeting. New members are welcome. Call 824-2166 for more information.

Historical society

The Wellington County Historical Society kicks off its 1994 program March 13 with a slide and videotape presentation on "The Inventory of Cultural and Heritage Landscapes" by Prof. Nancy Pollock-Ellwand of the School of Landscape Architecture. The meeting is open to the public and begins at 2:30 p.m. in the Nicholas Keith Room of the Wellington County Museum and Archives.

Educators to meet

The Association of International Educators will hold its 46th annual conference on "Seeking Balance in a Multicultural World" May 31 to June 3 in Miami Beach, Fla. Application deadline is April 1. Details are available at the International Education Services InfoCentre on Level 4 of the University Centre.

OISE seeks nominees

The Ontario Institute for Studies in Education is calling for nominations for its Distinguished Educator of OISE award for people who have made significant contributions to education in Ontario or Canada. Nominations should be submitted by April 29 to OISE director Arthur Kruger, 252 Bloor St. W., Toronto M5S 1V6.

JOBS

As of Feb. 25, the following opportunities were available:

Animal Health Technician - Veterinary Teaching Hospital, temporary leave from May 1 to April 30, 1995. Salary range: \$15.70 minimum, \$19.63 job rate, \$23.55 maximum.

Welder/Steamfitter, Maintenance Department. Job rate: \$18.15 an hour. Probation rate: 20 cents an hour lower than job rate.

Custodian 3, Housekeeping. Job rate: \$13.70 an hour. Probation rate: 20 cents an hour lower than job rate.

The following opportunities were available to on-campus employees only:

Accounts Administrator, Continuing Education, secondment or temporary leave from April 4 to Sept. 30/94. Salary range: \$14.44 to \$16.13.

Agricultural Assistant, Veterinary Teaching Hospital (nights). Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Senior Mail Clerk, Mail Services. Salary range: \$11.90 minimum, \$14.88 job rate, \$17.86 maximum.

Ottawa offers summer student wage subsidies

Employment and Immigration Canada is offering a wage-subsidy program to encourage employers to create new summer jobs, primarily for high school students.

Challenge '94 provides support for jobs lasting between six and 18 weeks from April 25 to Sept. 2.

Applications must address one or more of the following social priorities: drug and alcohol abuse; AIDS education, urban crime; the environment; literacy, culture and tourism; and employment opportunities for the disabled, visible minorities and native youth.

Prospective applicants are asked

to call Connie Schell in Kitchener at 1-571-5642 to discuss their project, if it fits the program criteria, an application form will be sent out.

Completed applications should be submitted for approval to the Office of Research with a signed OR5 form by March 16. Research Services will then courier the applications to Employment and Immigration Canada.

Applications submitted to Research Services after March 16 will be the responsibility of the applicants. □

NRC women-in-science program focus of session

The Office of Research will hold an information session March 15 for students interested in the National Research Council's (NRC) program for women in science. It begins at 4:10 p.m. in Room 1715 of the OVC Learning Centre.

The program provides financial support for Canadian women to further their studies in non-traditional science and engineering fields. It also offers hands-on experience working in NRC laboratories and with NRC partner organizations. Students

receive training and financial support of \$10,200, \$12,360 and \$15,450 respectively during their second, third and fourth years at university.

Applicants must be citizens or permanent residents of Canada, attending a Canadian university full time and completing the first year of an undergraduate science or engineering program.

In the 1993 competition, three U of G students were among the 25 successful applicants. □

Corrections

In the Feb. 23 issue of *At Guelph*, the photo accompanying the article "Business Leaders Offer Advice, Encouragement to Students," Paul MacPherson was incorrectly identified as Larry Pearson. MacPherson is president of Valcom Industries, one of the sponsors of the conference.

Also in the Feb. 23 issue, a map of Indonesia accompanying the commentary piece "It's Time to Give Readers Balanced Information, Say Indonesian Students" was out of date. A number of name changes and political changes have occurred since that map was published. An up-to-date map is shown below. □



CLASSIFIEDS

FOR SALE

Three-bedroom brick bungalow, plaster construction, hardwood floors, central vac, basement income, Glenburnie Drive, 837-2205.

Bone china: Aynsley Louis XV, Royal Doulton Melrose (set for eight plus), Coalport Indian Tree (set for eight plus), 822-0764.

Teak double bed with mattress, Jan, Ext. 3528 or 821-4607.

1979 Yamaha motorcycle, XS 400 cc, excellent condition, Jennie, Ext. 2709.

FOR RENT

Large one-bedroom attic apartment in quiet, elegant Victorian home, laundry, non-smokers, no pets, mature individuals only, available May 1, \$685 a month inclusive, 837-1717.

Two-bedroom two-storey brick house to sublet for summer, hardwood floors, high ceilings, close to downtown, \$600 a month, 824-9366.

Large modern home in Vanier Drive area, close to Stone Road Mall and University, available May 1, \$1,200 a month plus utilities, David, 763-8820.

Furnished room in house in quiet residential area close to downtown, share all facilities, including washer/dryer, fax and computer, available until mid-May, non-smokers, leave message at 821-8953.

FOUND

Dissecting kit in women's locker/washroom in Pathology Building 49, near McIntosh Lane entrance, Ext. 4552.

WANTED

Non-smoking teacher seeks apartment in Guelph home or for housesitting, 853-2920 days.

Furnished three-bedroom home for visiting New Zealand professor and family, August 1994 to January 1995, close to University and primary school, Ext. 3695 or 787-2211 after 7 p.m.

Older-style stroller with spring suspension, 1-759-6443.

Notebook computer, color preferred, either 486 Intel or 030 Motorola, Peter or Linda, telephone or fax 822-2904.

9 x 12 Interoffice envelopes, send to University Communications, Level 4, University Centre.

THANK YOU

I would like to express my sincere appreciation to my friends and colleagues who sent good wishes in the form of cards, letters, flowers, calls, etc. Special thanks to the Department of Nutritional Sciences for the welcome-back party. It was a lot of fun.
Prof. Tammy Bray

Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing by Wednesday at noon to *At Guelph* on Level 4 of the University Centre. For more information, call Ext. 6580.

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CALENDAR

FRIDAY, MARCH 4

Plant Genetics Mini-Symposium - The Department of Horticultural Science hosts an all-morning discussion of plant genetics in UC 103. Don McCarty of the University of Florida looks at "Genetic Regulation of Seed Maturation in Maize" at 10 a.m., John Ryals of Ciba Geigy in North Carolina examines the "Molecular Biology of Systemic Acquired Disease Resistance" at 10:15 a.m. and Benoit Landry of Agriculture Canada discusses "Market-Assisted Selection in Brassica" at 11:15 a.m. For more details, call Prof. Dave Wolyan at Ext. 3092.

Biomedical Sciences Seminar - Leslie MacLaren of the Department of Molecular Biology and Genetics considers "Cows and Integrins: An Unusual Model of Development" at 12:10 p.m. in OVC 1642.

Interdepartmental Evolution and Systematics Seminar - "The Comparative Biology of Sex-Ratio Evolution in the Parasitic Wasp *Nasonia Vitripennis*" is the topic of Steven Orzack of the University of Chicago at 3:10 p.m. in Axelrod 117.

SATURDAY, MARCH 5

The Arboretum - Maple Syrup Days run today and tomorrow and continue weekends until the end of March. Meet at the nature centre between 9:30 a.m. and 3:30 p.m.

MONDAY, MARCH 7

Psychology Colloquium - "Special Education: Delivery of Programs and Services" is the topic of Janice Tomlinson of the Hamilton Board of Education at noon in UC 442.

TUESDAY, MARCH 8

Our World - Women of former Yugoslavia explain what International Women's Day meant to them and what it means today at 12:10 p.m. in UC 442.

Physics Seminar - Eric Poisson of the California Institute of Technology speaks at 4 p.m. in MacNaughton 113.

Off-Campus Housing Session - Karen Walker of Student Housing Services provides information about living off campus at 6 p.m. in the East Residences fireplace lounge.

WEDNESDAY, MARCH 9

Third Age Learning - This lecture series for retired people continues at 10 a.m. at the Arboretum Centre with retired English professor John Bligh on "Ethical Relativity and Linguistic Analysis" and at 1:30 p.m. with Prof. François Paré, French Studies, on "The Development of Language Policy in Canada."

Biochemistry Seminar - "Crystallization Studies of Bovine and Yeast Tubulin" is the topic of Valiente Wisco of the Department of Chemistry and Biochemistry at 12:10 p.m. in MacNaughton 222.

Zoology Seminar - Jennie

Chaplin looks at "Sex, Asex and Ostracods" at 4 p.m. in Axelrod 259.

Off-Campus Housing Session - Karen Walker of Student Housing Services provides information about living off campus at 6 p.m. in the Lennox-Addington fireplace lounge.

THURSDAY, MARCH 10

Concert - Contralto Patricia Hanton-McCord and pianist Brian McDonagh perform at noon in MacKinnon 107.

Lecture - Music student Heather Ford discusses "Rimsky-Korsakov: From Nationalism to Conservatism in 19th-Century Russian Music" at 2 p.m. in MacKinnon 203.

Concert - Guitarist Sean McInnis, a graduate of U of G, gives a free concert at 8 p.m. in the Eccles Centre.

FRIDAY, MARCH 11

Molecular Biology and Genetics Seminar - Normand Brisson of the University of Montreal talks about "The Pathogenesis-Related Gene PR-10a of Potato: A Model System for the Study of Gene Activation During the Defence Response" at 11 a.m. in Axelrod 028.

Nutritional Sciences Seminar - Prof. Debbie O'Connor, Family Studies, looks at "Dietary Factors That Influence the Availability of Folate" at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - "The Genetic Investigation of Diabetes Susceptibility Using an Animal Model: The Non-Obese Diabetic Mouse" is the topic of Philip Davies of the Pasteur Institute in France at 10:10 a.m. in OVC 1642.

Biomedical Sciences Seminar - Graduate student Shawn Borgford discusses "Muscarinic Receptors Modulating Ruminoreticular Motility" at noon in OVC 1642.

Geography Seminar - "On Environmental Concern and the Moral Beauty Culture" is the topic of Ronald Bordessa of York University at 1 p.m. in Hutt 234.

Interdepartmental Evolution and Systematics Seminar - Edward Southwick of the State University of New York looks at "Honeybees as Superorganisms" at 3:10 p.m. in Axelrod 117.

Zoology Seminar - Ken Spitz of the University of Miami discusses "Adaptive Evolution in *Daphnia*" at 4 p.m. in Axelrod 259.

SATURDAY, MARCH 12

Arboretum - Maple Syrup Days run today and tomorrow and continue weekends until the end of March. Meet at the nature centre between 9:30 a.m. and 3:30 p.m.

Concert - Stephen Fearing performs at the Bullring at 9 p.m. Tickets are \$8 in advance at the UC box office, \$10 at the door.

TUESDAY, MARCH 15

Our World - "Challenges and Struggles of the People of Southern Sudan" is the topic at 12:10 p.m. in UC 442.

Physics Seminar - Christine Wilson of McMaster University presents this year's CAP undergraduate lecture on "Millimetre-Wave Radio Astronomy: Measuring Gas in Galaxies" at 3 p.m. in MacNaughton 113. The 1993/94 physics scholarship recipients will be honored before the lecture.

WEDNESDAY, MARCH 16

Biochemistry Seminar - Graduate student Emmalee Marshall considers "Osmoregulation of ProP activity: Elucidating the Roles of Ion Coupling and the Carboxyl Terminal Domain" at 1:10 p.m. in MacNaughton 222.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thombrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek — A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

Women's Spirituality meets Thursdays at 12:10 p.m. in UC 335. Womenspirit meets Fridays at 12:10 p.m. in UC 533.

The Woman to Woman Choir will conduct the service at the Guelph Unitarian Fellowship March 6 at 10:30 a.m. The fellowship is located on Harris Street at York Road.

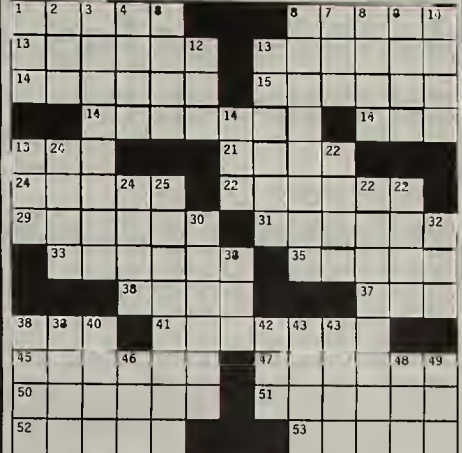
Multifaith calendar

In the Islam faith, March 9 is Lailat-ul-Qadr, the Night of Power, commemorating the first revelation of the Qur'an (the Islamic scriptures) to the Prophet Muhammad. March 11 is Juma-tul-Wida, the last Friday of the month of Ramadan.

In Hinduism, March 11 is Mahashivaratri, a feast dedicated to the major deity Shiva.

Reprinted with the permission of Canadian Ecumenical Action.

Canadian Criss Cross by Walter D. Feener



ACROSS

1. Split —
6. African tableland
11. Bruise application
13. — BALLARD (FORMER MAPLE LEAF'S OWNER)
14. Machine part
15. Glass container
16. Derisive yell
18. Companion of feather
19. Ship's stem
21. Glance
23. Airship
26. Infantrymen
29. Legal warning
31. Faucet
33. Holding, as of land
35. Wander off
36. ESKIMO KNIVES
37. Be wrong
38. Worm out
41. Organic compounds
45. Garden plants
47. Throbbled
50. QUEBEC LAND MEASURE
51. YUKON MOUNTAIN
52. Philippine island
53. Deplorably

DOWN

1. Possesses
2. Dexterity
3. Motionless
4. SINGER MCNEIL
5. Money paid
6. B.C. CITY
7. French artist
8. Over-whelming defeat
9. Earthenware vessel
10. Baltic river
12. Circle part
13. Sainly hat bands
17. High mountain
19. Alphabet beginners
20. Lacking effervescence
22. Draw together
24. Bill of fare
25. CANADIAN PAINTER
27. Exited
28. Fly high
30. Most faithful
32. Odin's son
34. CANADIAN TIME ZONE: ABST.
38. Racetrack shape
39. Syrian pounds
40. Stupefied
42. Parent of Ceres
43. Enthusiastic
44. Ancient Italian town
46. Rent out
48. House extension
49. Actress Susan

For crossword solution, see page 8.

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FOCUS

She walks the line and dances it, too

by Maurice Oishi
University Communications

In the 1970s, Sheila Attwell was no urban cowboy. You'd never catch her in a Stetson or a snap-button shirt with a fringe. But how times have changed. Now she's decked out in cowboy boots and stomping to the country sounds of Alan Jackson and Michelle Wright.

For Attwell, marketing manager in Hospitality and Retail Services, line dancing was an unlikely fit. She grew up listening to the bookends of the 1970s — the Beatles and the Bee Gees. But then her friend Karen Jacob got her to try line dancing to country music.

"When your best buddy gets into it, you tag along," she says. "Now I love it. Between country music and classical, it's about all I listen to."

But there's a lot more to line dancing than Garth, Reba, Wynonna and Billy Ray. Attwell, who now teaches with Jacob, says it's hard to pigeonhole the typical dancer. Their regular dance group, the Sugar Kickers, spans an age range from 17 to seniors.

The one thing they do have in common is that they're all women. "We have one husband who comes out when he feels brave," she says.

Although the high female-to-male ratio isn't universal, it may actually add to the appeal of line dancing, says Attwell. "We've found the big attraction is that you don't need to have a partner. In

this neck of the woods, line dancing appeals more to women than it does to men."

How does line dancing compare with the disco craze of the '70s? "You can compare it to the hustle," she says. "It's the popular music of the time."

Line dancing is also a form of exercise that participants can tailor to their own abilities and needs, says Attwell. Where one person will do a "wiggle, wiggle, wiggle," another may prefer "a dignified sway." But one thing most people share is that "they really love the stomping parts."

Jacob takes advantage of business trips to the southern United States to pick up the latest steps. And there's a lot to learn, says Attwell. Dances like the achy breaky heart, boot scootin' boogie and the electric slide not only vary from region to region, but each bar may also have its own "signature" version. On top of that, there's a resurgence of two-stepping and a move towards line dancing to house, hip hop and pop music. "The betty bop works well with Michael Jackson," she says.

Attwell credits Jacob as the real instructor of the duo. "I'm not very good rhythmically, and coordinating my feet with the music is tough," she says. "I'm the assistant. I work with people having problems and help with review."

In addition to teaching the Sugar Kickers at Club 2-4 on Thursday nights, they have a regular Tuesday night gig at the Wrangler Cafe. □



All dressed up — and somewhere to go. Decked out her in line dancing duds, Sheila Attwell demonstrates some of her fancy footwork.

Photo by Maurice Oishi, University Communications



Tips for recycling

Physical Resources offers the following waste-management tips for everyone on campus.

- Break down your corrugated cardboard boxes before leaving them out for Housekeeping. It will make collection much easier.
- If you have any old computers or computer parts (keyboards, monitors, even Vic 20s, etc.), don't throw them out. Call waste-management coordinator Laura Rourke at Ext. 2054 and arrange to have them picked up and recycled.
- If you have any old books (hardcover, paperback, texts, etc.), don't throw them in the garbage. Call and arrange to have them picked up and recycled or reused.
- If you have any confidential material you need shredded before it's recycled, call Rourke to make the arrangements.
- Remember that file folders, envelopes, colored ledger paper and NCR paper can be recycled in the fine-paper stream. If you're unsure about what can be recycled and where, call Ext. 2054. □

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Crossword answers

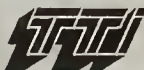
| | |
|---------|---------|
| HATIR | KAROO |
| ARNICA | HAROLD |
| SATOR | AMPULE |
| CATCALL | TAR |
| AFT | LOOK |
| BLIMP | PEONES |
| CAVEAT | SPIGOT |
| TENURE | STRAY |
| ULUS | ERR |
| OLO | KETONES |
| VIOLAS | PULSEO |
| ARPENT | STEELE |
| LEYITE | STADLY |



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Volume 38 No. 9

University of Guelph, Guelph, Ontario

March 9, 1994

FIRST GLANCE

Way to go, Gryphons!

While some basked in the Florida sun last week, others worked up a sweat of the athletic kind. Over the weekend, the Gryphon men's hockey team won the Ontario title, beating Western 2-1 with goals by Eric Ross and Todd Wetzel and the netminding of tournament MVP George Dourian.

This Friday, they'll face off again against Western in Varsity Arena in Toronto, this time for the semi-finals leading to the national CIAU title. You can watch it on TSN.

Insert:

Included with this issue of *At Guelph* is the program for College Royal.



Inside:

Computer software eases the global link 3

French government pays tribute to food scientist 3

Wood chips — energy source of the future? . . 5

Thought for the week

Racism: the maximum of hatred for a minimum of reason.

Abraham Joshua Heschel



Shooting for success

The man they call the Shephard, economics professor Ken Grant, right — and colleagues like Prof. Phil Sweeny, Microbiology — ensure that Gryphon basketball players find time for both hoops and books. And Gryphons like Jeff Erskine and Christian Baldaur, in background, appreciate the support. See story on page 8.

Photo by Maurice Olski, University Communications

College Royal set for its 70th year

It was 1925 when OAC staff and students first decided to create their own version of the traditional agricultural fair in the form of College Royal. Now in its 70th year, it's the largest open house of its kind in Ontario and involves several hundred students across campus.

This year, College Royal runs March 19 and 20, with the campus open Saturday from 9 a.m. to 5 p.m. and Sunday from 10 a.m. to 5 p.m. The 1994 theme, "Expanding on Tradition," recognizes both the tradition and the continuous growth and development of College Royal.

New this year is a display by the Society for Computing and Information Science that will allow visitors to try out the computer information network Mosaic. It provides access to a variety of topics ranging from the Dead Sea Scrolls to tours of New Zealand.

Also new is a pancake-flipping contest, with teams being judged on taste, sales, enthusiasm and costumes.

Traditional events include a cat show, fashion show, chemistry magic show, Old MacDonald's Farm, demonstrations of animal surgery and a petting zoo. The 41st annual dog show will be held March 19; half-time shows will feature flyball and agility demonstrations.

This year's Curtain Call production of *West Side Story* brings the modern musical version of the romance of Romeo and Juliet to War Memorial Hall. Students are the producers, directors and performers in this musical, which also fea-

tures the music of Jazarus. Performances are March 16 to 19 at 8 p.m., with a Saturday matinee at 2 p.m.

There will also be live entertainment on an open stage in the University Centre courtyard throughout the weekend.

On Saturday at 2 p.m., members of the U of G varsity skating team will demonstrate the talent that made them Ontario university figure-skating champions.

A lecture series featuring Guelph faculty will run both Saturday and Sunday. Topics include pesticides, potato chips, pet training and the history of the University.

Running concurrently with College Royal is the annual Juried Art Show featuring the works of students in the Department of Fine Art.

A free shuttle bus will be available to transport visitors to events across campus. Maps and information will be available in the University Centre.

Throughout College Royal weekend, the campus will play host to thousands of Ontario secondary school students for Campus Days. The students and their parents will have a chance to talk to U of G faculty, admissions staff and students.

Booths with information on academic programs and university life will be set up in the UC courtyard. Guided tours of the campus and residences will be available.

For a full schedule of College Royal events, see the insert included with this issue of *At Guelph*.

Anti-Racism Week events focus on white privilege

Anti-Racism Week March 20 to 25 is about more than racism. It's about understanding the common seed that gives rise to all forms of discrimination, says organizer Tracey Gooden, Central Student Association human-rights co-ordinator.

The week will feature movies, concerts, live performances and seminars, but the overall goal is to shed light on the deeper issue of white privilege, she says.

Demeaning people of color is only a symptom of white privilege, says Gooden. Unnamed assets — such as not being labelled a spokesperson for one's entire ethnic group — give white people

a privilege not enjoyed by people of color. Such systemic power wielded by the visible majority needs to be analysed, she says.

"Privilege is a vehicle for upward mobility," says Gooden. And she notes that it isn't simply about racism. The same sense of power and privilege extend to such issues as homophobia and sexism. This point will be explored in a panel discussion March 22.

A booth in the UC courtyard March 21 to 23 will provide information on white privilege. The Popular Theatre troupe will bring

see RACE on page 2

SPC invites students to attend open forum

The Strategic-Planning Commission (SPC) invites all graduate and undergraduate students to attend an open forum March 15 from 5 to 7 p.m. in Peter Clark Hall.

SPC student members Chris Parent and Robin Hicks will lead an information session on the University's strategic-planning process. Following

this, participants will divide into small groups to discuss issues facing the commission and to provide suggestions for improvements and future directions.

Because the meeting will include a light meal, students are being asked to register by March 14 at noon at Ext. 2377.



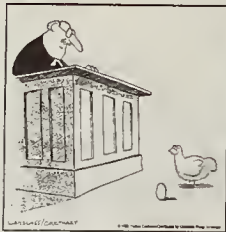
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by David Wallace
Gordon Goulet

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GRAD NEWS

The final PhD examination of George Kiremu-Mutwiri, Veterinary Microbiology and Immunology, is March 16 at 9 a.m. in VMI 101. The thesis title is "The SCID/SCID Beige/Beige Mouse Infected with *Mycobacterium Paratuberculosis* for the study of Paratuberculosis." His adviser is Prof. Soren Rosendal.

The final oral examination of M.Sc. candidate Sheldon Kawarsky, Biomedical Sciences, is March 21 at 9 a.m. The seminar is in OVC Main Building 1642, followed by the defence in OVC Learning Centre 1708. His thesis is "Cytogenetics and Development of Bovine Embryos Produced by Abnormal Spermatozoa." His advisers are Prof. Allan King and P.K. Basur. □

Indonesia ignores other countries' aspirations of independence

Having travelled in Southeast Asia last year, I read with interest the Feb. 23 *At Guelph* commentary by Indonesian graduate students about their country.

I was surprised at their description of Indonesia's independence in 1945 from 350 years of Dutch rule, which dismissed the Indonesian government's invasion and forced assimilation of south Moluccas in 1950 because "the Moluccas Islands and Irian Jaya have always been part of the Dutch East Indies once ruled by the Dutch."

In light of the completely legitimate aspirations of the Indonesians to be free of Dutch rule, it is disturbing that they do not consider the aspirations of other people as well. Just because the Moluccas Islands and Irian Jaya suffered the same colonial fate as Java was no reason to continue that colonialism once freedom was achieved.

Those areas were just handed from the Dutch empire to the Japanese empire without any thought of the hopes and dreams of the non-Japanese people.

Although the graduate students mention with sadness the recent massacre of East Timorese by Indonesian government soldiers in 1991, they fail to mention Indonesia's 1974 invasion and armed occupation of that country one year after its independence from Portuguese rule.

At that time, up to one-third of the population was killed by aerial bombing, forced relocation and starvation. Once again the issue of other countries' legitimate aspirations of independence is ignored.

It is within this context of deny-

ing other people's aspirations of independence that the Indonesian authors recommend that *Ontarian* writers stop "yelling in emotional agitation" and "become involved with the East Timor development program." But this recommendation — and the descriptions of rural improvements — takes for granted East Timor's subordination to Indonesian rule, ignoring the thousands of East Timorese who have died trying to keep their country free.

When speaking about human

rights in developing countries, the students quote Indonesia's minister of foreign affairs, Alatas, as saying "any approach to human rights questions which is not motivated by a sincere desire to protect these rights but by disguised political purposes or, worse, to serve as a pretext to wage a political campaign against another country cannot be justified."

This seems like a Catch-22 because how do you distinguish between a sincere desire to protect human rights and some "hidden

agenda" of a political nature? Because any mention of human rights abuses would naturally reflect on the country perpetrating them, this argument could conveniently stifle any form of criticism.

Indonesia is a richly varied country with enormous potential and an exciting future. But it cannot truly prosper on the backs of those who never wanted to be part of it.

Jennifer Sumner
Independent Study

OPIRG asks consumers to support human rights

The Burma Working Group of the Guelph chapter of the Ontario Public Interest Research Group (OPIRG) is asking the campus community to participate in an international boycott of PepsiCo products, in particular the KFC and Taco Bell outlets on campus.

The boycott is also supported by all nine provincial OPIRGs, Canadian Youth Network for Asian-Pacific Solidarity and Friends of the Rainforest.

While other companies were leaving Burma (Myanmar) for ethical reasons, PepsiCo moved in. All bottling operations are regulated by the governing State Law and Order Restoration Council (SLORC), which is responsible for:

- enslaving civilians as army porters and human mine sweepers;
- plundering and devastating the world's last great teak forests; and
- expanding the world's largest heroin trade, causing massive addiction and an explosive growth of AIDS.

Levi-Strauss and Co. pulled out of Burma saying: "It is not possible to do business in (Burma) without directly supporting the military government and its pervasive violations of human rights." PepsiCo's presence serves to legitimize SLORC's oppression of the Burmese people and devastation of the land.

Other PepsiCo products include 7Up, Mountain Dew, Crush, Hires, Smartfood, Hostess-Frito Lay, Ruffles, Sunchips, Doritos, Cheetos, Rold Gold, Pizza Hut and Ocean Spray.

For more information, call the

Burma Working Group at Ext. 2129 or 824-2091.

Helen Hudson
Burma Working Group
OPIRG

GRIFF research directory fixed

It was recently discovered that since last fall, an error has prevented GRIFF users from seeing the files in the "Faculty/Research" directory. The problem has now been corrected and will not recur.

We apologize to faculty and urge them to resume using GRIFF for announcements from the Office of Research.

Wayne Marsh
Director, Research Services

Race Relations Commission, volunteers organize events

Continued from page 1

the issue to life for students in South Residences, showing them how to identify racism and how to respond to it.

The week's events are organized by the Race Relations Commission and volunteers. On March 20, the movie *The Joy Luck Club* begins at 8 p.m. in War Memorial Hall. On March 21, a seminar on academic freedom runs at noon in Room 103 of the University Centre, and Drew Hayden Taylor discusses aboriginal theatre at 7 p.m. in UC 103.

On March 22, a workshop on "Racism and International Development" begins at noon in UC 103. A panel discussion focusing

on "Making the Links" is scheduled for 7 p.m. in Room 113 of the MacNaughton Building.

On March 23, songwriter Faith Nolan gives a free concert in the UC courtyard at noon. A panel discussion of "Racism in the Media" begins at 7 p.m. in Room 029 of the MacKinnon Building.

On March 24, Darimeade, co-founder of the Black Action Defence Committee, speaks at noon in UC 429. At 7 p.m., there will be an open-stage reading in the OTAS lounge on Level 5 of the University Centre.

On March 25, an anti-racism workshop begins at noon in the MacKinnon Building red lounge. □

Cheque it out!

Guelph MPP Derek Fletcher, left, has come to campus bearing cheques twice in recent weeks. Here, he presents \$50,000 from the Ministry of Citizenship to OVC associate dean Alastair Summerlee for a program to help veterinary graduates trained outside Ontario upgrade their skills. Fletcher also presented \$15,000 from the Ministry of Health to Prof. Ed Herold, Family Studies, for the 16th Annual Guelph Conference and Training Institute on Sexuality.

Photo by Maurice Oishi,
University Communications

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of GUELPH

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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph headlines top stories and coming events can also be accessed on GRIFF.

Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, Fax: 519-824-7962. Office hours: 8:30 a.m. to 4:45 p.m.

France honors food scientist

Prof. Marc Le Maguer, chair of the Department of Food Science, has been awarded the prestigious *Palme Académiques* by the Government of France.

The award, which was presented to Le Maguer by French Consul General Yves Doutriaux March 1, honors distinguished service to education in the humanities, sciences and arts. With the award, Le Maguer is recognized as a Knight in the Order of the *Palme Académiques*.

In presenting the award, Doutriaux cited Le Maguer's contributions to food science and his work in establishing an educational exchange between U of G and a consortium of four schools and universities in Paris, Dijon, Nancy and Nantes, France.

He also noted the food scientist's involvement in organizing the 1992 France-Canada Food Research Colloquium, which brought together university and industry researchers from the two nations at U of G.

Doutriaux described Le Maguer, who has dual Canadian and French citizenship, as "our ambassador in Guelph."

Le Maguer said he doesn't see the award as a personal tribute. "It's part of my function as an academic. I see it as recognition of what we can do to enhance communication between people who share a common interest. It's a call to the importance of people working together."

The *Palme Académiques* was first awarded by Emperor Napoleon I in 1808. Today, it is awarded annually to about 200 scholars in France and fewer than 10 around the world. □



Prof. Marc Le Mageur, centre, proudly wears the *Palme Académiques* he was awarded this month by the Government of France. Sharing the occasion are French Consul General Yves Doutriaux, left, and President Mordechai Rozanski.

Photo by Maurice Oishi, University Communications

New software brings the resources of the world to classroom

by Maurice Oishi
University Communications

For teachers who want to bring the resources of the international computer network Internet to their courses, the Department of Rural Extension Studies is holding a seminar on a seamless way to mine the network.

Scheduled for March 18 at noon in Room 203 of Computing and Communications Services (CCS), the seminar will introduce the Global Network Navigator. This new application provides access to the ever-expanding educational resources on Internet, says seminar organizer Prof. Don Richardson.

Richardson was introduced to the Navigator by undergraduate political studies student Greg Searle and landscape architecture student Paul Graham, who jointly compiled the application.

The point-and-shoot ease of the system, which doesn't require knowledge of arcane computer commands, was ideal for the specialized academic demands of the courses Richardson teaches on distance education. It has allowed him to connect his students with course-related material around the world.

He hopes the seminar will open up a grassroots working group to investigate academic uses of both the Navigator and Global Village Co-operative, an application that lets users communicate through text in a manner similar to conference calls on the telephone. Richardson has used this applica-



tion to allow his students to interact with leading scholars they would otherwise never have met. He's slated the first meeting for this group March 25 at noon in CCS 204.

One of the functions of the working group will be to determine the computing and communications requirements for these applications, says Phil Jones, manager of Support Services in CCS. They are available to a limited number of users of the campus Unix system, but are not currently supported by CCS.

The Global Network Navigator is based on Lynx, a product developed at the University of Kansas that provides easier methods of accessing and finding information on Internet, says Jones. This move towards improved access to information on Internet began with Gopher, which is available at U of G and many universities worldwide. Products such as Lynx and Mosaic are a natural evolution towards improving this access, he says.

To register for the workshop, contact Richardson at Ext. 3811 or drichard@uoguelph.ca. □

Natural hormone could be valuable human healing agent

by Margaret Boyd
University Communications

A naturally occurring hormone called melatonin could be used in the future to treat asthma, migraine headaches, digestive disturbances and infant colic, says Prof. George Bubenik, Zoology.

"It's an amazing compound," he says. "A few minutes after being released into the blood, melatonin penetrates every cell of the body. It relaxes the brain and calms the gastrointestinal system."

Melatonin is a natural relaxant produced primarily in the pineal gland, but also in the retina and digestive tract. Because blood levels rapidly rise at the onset of darkness, it became a convenient signal for the recognition of time and seasonal change during evolution.

In humans, who are mostly diurnal, melatonin causes lower body temperature, drowsiness and relaxation of smooth muscles. It's found in many organisms from algae to humans and is quickly metabolized. Further testing is required before melatonin can be made available commercially.

As an amino acid derivative, melatonin is related to tryptophan and is a metabolite of serotonin, a powerful neural stimulator. Melatonin acts as a physiological inhibitor of serotonin, which is associated with negative effects on the gastrointestinal tract, the immune system and mental processes.

Bubenik's studies of melatonin indicate it may have a beneficial effect on intestinal activity and epilepsy.

In studies with mice, he found the hormone had

an ameliorating effect on colitis. Three weeks after diseased mice were treated with melatonin, they had no symptoms of bleeding and showed a significant reduction in the inflammation of the large intestine.

Bubenik's studies also confirmed that the compound has a beneficial effect as an anticonvulsive drug, capable of blocking experimentally induced epilepsy.

Because melatonin levels in humans decrease with age, using it as a drug could mitigate a number of health problems associated with aging, he says. European experiments found that mice with elevated levels of melatonin lived 50 per cent longer and had longer fertility than a control group. In his own studies, Bubenik learned that food-restricted animals produce twice as much melatonin in the gut as animals fed normally.

Numerous studies in the United States and Europe indicate that melatonin has an anti-cancer activity, because proteins similar to those involved in muscle contraction are also implicated in cell division.

In addition, studies have shown that melatonin helps counteract the negative effects of serotonin on the immune system. Melatonin could therefore make a two-pronged attack on cancer — by reducing cell division and stimulating the immune system, Bubenik says.

Melatonin has been successfully used to treat jet lag if taken two to three days before travel. This is because melatonin synchronizes the internal body clock, allowing it to prepare in advance for a new time zone, he says. □



International Women's Week events scheduled

This is International Women's Week, and U of G is marking the occasion with a variety of events sponsored by the Central Student Association.

On March 9, the Daiko Drummers will perform at noon in the University Centre courtyard. Their performance is dedicated to Audrey Lord, an African-American lesbian poet activist. Two films — *A Long Time Coming* and *Returning Home* — will be shown at 5 p.m. in Room 117 of the MacKinnon Building.

On March 10, the film *Feminist Minutes* will be shown at noon in MacKinnon 120. A panel will discuss white privilege at 2 p.m. in Room 103 of the University Centre.

The week's events wrap up March 11 with Vuyiswa Keyi, a South African woman from Women's Health and Women's Hands in Toronto, discussing "Oppression and the Health-Care System" at noon in UC 335. □

Pesticides in home under study

by Margaret Boyd
University Communications

Pesticides in the home are a potential health risk, especially for young children and the elderly. For the first time in Canada, a U of G study will collect data to measure just how serious those risks are.

The study will look at accidental contamination from garden or agricultural spraying as well as contamination from indoor spraying for fleas, cockroaches and other pests.

"These chemicals are potentially

toxic," says Prof. Keith Solomon, director of the campus-based Canadian Centre for Toxicology. "We know that risk equals exposure times toxicity, but unless we know the exposure in humans, we won't know the risk."

U.S. studies have found that indoor pesticide levels are crossing exposure limits for humans. There is also cause for concern in Canada, which has similar living patterns and pesticide use, says V.M. Kanagasabapathy, a postdoctoral fellow who is conducting the studies.

"There is a lot of concern in cold-climate countries, where 85 per cent of people spend nearly 80 per cent of their time indoors," he says. "A number of studies indicate that certain indoor pollutants can be 10 to 100 times higher than outdoors."

Solomon notes that cigarettes are responsible for the highest levels of indoor pollution and that bingo halls consistently rate among the worst in terms of in-

door pollution.

The new study will sample indoor air quality from homes in the Burlington and Hamilton areas over two years. Air samples will be collected for 24 hours after outdoor lawn spraying or indoor spraying for household pests.

Outdoor pesticides pose a risk because they can be tracked indoors and accumulate in carpets and furnishings, says Kanagasabapathy. Protected from sunlight indoors, the rate of degradation decreases.

Pesticides sprayed indoors will also be studied for air concentrations and for dislodgability from walls and carpets. The dislodgability study will employ a video-imaging technique that uses fluorescent tracers to assess pesticide exposure in humans. This non-invasive technique was developed last year by Bruce Archibald of the Ontario Ministry of Agriculture and Food (OMAF).

Kanagasabapathy is now developing the methodology for sample collection. Because the pesticides have a wide range of chemical actions, it may be necessary to develop several procedures. Sample analyses will be conducted in co-operation with OMAF laboratories in Guelph.

The sampling program will contribute to a larger Ministry of Environment and Energy study to look at air quality, specifically industrial pollutants, in various cities. □

STUDENT SPEAK

by Justin Diggle



Drive time for CFRU radio

Raising the voice of U of G — that's what CFRU has been doing for the past 14 years. In an effort to keep the University's voice loud and clear, the campus radio station is launching its eighth annual membership and fund-raising drive this week. Dubbed "Raise Your Voice," the campaign aims to raise \$16,000.

CFRU FM is a non-profit station transmitting from the second floor of the University Centre. Its mission is to supply alternative media and programming, with a special emphasis on providing a forum for traditionally marginalized groups.

"We like to think of ourselves as people-based, not profit-based," says Alex Prediger, one of the station's six co-ordinators. The station also aims "to be a bridge between the campus and the community," he says.

Beaming across the airwaves at 250 watts, CFRU has a listening area that extends from Cambridge and Kitchener-Waterloo to Fergus and Elora. The station depends on 150 volunteers, both student and non-student, to perform a variety of tasks on and off air, says Prediger, but it also requires a number of paid members. These people meet monthly to determine the station's programming, budget, staffing and goals.

Membership funds go to cover operating costs; surpluses go to capital expenditures, he says. And CFRU members determine where the money will be spent. A key area now under discussion is the purchase of new equipment.

Funding for all these areas depends on increasing memberships and contributions. From March 11 to 20, CFRU will be hosting a variety of special fund-raising programs, both on and off air. In the studio, the campaign will kick off with a tribute to the late jazz musician Sun Ra March 11 from 7 a.m. to noon. Other on-air events include special programming for International Women's Day and Anti-Racism Week and community profiles of on- and off-campus groups.

During College Royal weekend March 19 and 20, visitors are invited to take guided tours through

the mysterious corridors of the station itself.

On March 19, CFRU will host a workshop for budding studio technicians of all ages in the Eccles Centre. Topics will include how records are cut, how concerts are promoted and how music is marketed. The campaign wraps up March 20 with a community dinner, compliments of CFRU volunteers. Time and location are to be announced.

Anyone interested in volunteering during the campaign, buying a membership or just finding out what CFRU is all about should drop by the station.

International expo March 12

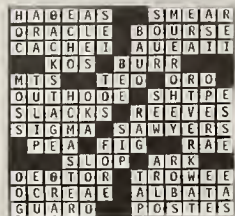
Building bridges among nations will be the theme March 12 when the International Association of Students in Economics and Commerce (AIESEC) holds an international expo at the College Inn.

Funded by various community businesses, the event will run from 10 a.m. to 4:30 p.m., featuring exhibits by more than 15 cultural groups from U of G and the Guelph area. They will include offerings of ethnic cuisine and entertainment.

AIESEC is a global student organization designed to promote worldwide awareness of international business opportunities. Launched in 1948, this non-profit organization has since expanded to 71 countries and more than 700 universities.

Today, more than 50,000 students around the world are involved in administering foreign-exchange programs and developing business contacts in other countries. The international expo is designed to meet those goals, says Dave Klosler, financial vice-president of AIESEC's Guelph chapter. "The aim of Expo is to promote international awareness in an enjoyable fashion," he says.

The event will also feature a talk by Guelph-Wellington MP Brenda Chamberlain at 1 p.m. Admission is \$2 at the door. □



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Obituary

Professor emeritus Leonard Webber, a member of the Department of Land Resource Science from 1941 to 1978, died Feb. 27 at the age of 80.

Prof. Webber is survived by his wife, Berenice Kerry, three daughters, Kerrie Bras and Nancy Taylor of Mississauga and Maureen Webber of Toronto, and four grandchildren.

A memorial service will be held April 9 at 1:30 p.m. in the Wall-Custance Chapel. A tree will be dedicated in Prof. Webber's name in the Wall-Custance Memorial Forest in the Arboretum Sept. 25 at 2:30 p.m. □

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Gearing up for CFRU's annual membership- and fund-raising drive are, from left, station members Alex Prediger, Kevin Lynn, Sue Forrest, Alka Sharma, Rob McCarthy and Bruce Wiens.

Photo by Maurice Olsh, University Communications

Sawmill waste shows promise as energy source

by Steve O'Neill and
Lisa Gombinski
Office of Research

Instead of winding up as landfill — or worse — waste from Ontario sawmills could be used to heat and light northern communities, say University of Guelph researchers.

Prof. Glenn Fox, Agricultural Economics and Business, and a team of graduate students have found that sawdust and other wood-based debris disposed of by sawmills during the 1980s could have generated enough electricity to power more than 116,000 homes for a full year.

The researchers have spent the past four years examining the economic and environmental potential of biomass — matter derived from living organisms such as trees — as an energy source.

Biomass is burned in co-generation plants to create energy that is used both to heat homes and generate steam to turn turbines for electrical power. They believe it has potential for Northern Ontario. "A process that produces energy while safely disposing of this refuse offers a rare opportunity to earn profits while improving environmental quality," says Fox.

Graduate student Naomi Beke has built on the research of former graduate students Brian Cozzarin, Yuhong Meng and Al Mussel, who focused on using forest biomass as energy sources.

Cozzarin began the research with Fox's colleague Prof. Wayne Pfeiffer in 1987, studying the possibilities of using easily grown willow and poplar trees. Fox's students Meng and Mussel continued



These wood chips could provide a profitable alternative to existing energy sources, says graduate student Naomi Beke.

Photo by Trina Koster, Office of Research

the research, exploring the use of jack pine and spruce trees that had been cut for "thinning" purposes — that is, culled by commercial growers to strengthen the rest of the crop.

Both studies yielded interesting results, but the same conclusion — that this raw material could simply not compete with coal and oil in terms of economic viability.

Beke expanded on the research, but changed the focus to a fuel

source that had not previously been considered — sawmill waste. It offers a virtually inexhaustible source of raw material at almost no cost.

Although much of the sawdust and wood-chip waste produced by Canadian sawmills is used for various landscaping and agricultural purposes, a significant amount — more than 285,000 cubic meters a year — is simply disposed of.

Beke based her research in the Northern Ontario community of Geraldton, conducting the project with the co-operation of sawmill Weldwood of Canada Ltd., the Ontario Ministry of Natural Resources and the Geraldton Community Forest Pilot Project.

The eight-month study yielded dramatic results. Cost analysis showed that a co-generation plant fuelled by sawmill waste would offer a 22-per-cent financial return on investment after taxes.

Beke's research didn't end there. She looked at the amount of sawdust that was disposed of by Ontario sawmills from 1980 to 1990 and estimated the energy — and income — that the waste could have generated.

Her findings? Had the decade's worth of sawdust been used as biomass, it could have provided 45 kilowatts of electricity a day to 116,397 houses for a year.

Co-generation plants supplying that electricity — at a lower cost to consumers than Ontario Hydro offers — would have taken in more than \$74 million in gross revenue.

Beke says such plants offer not just a feasible alternative to existing energy sources, but also a profitable one. And they wouldn't pose a serious threat to the province's electricity-producing giant, she adds.

The approximately 39 million kilowatts that an aver-

age co-generation plant could produce yearly using biomass is "a drop in the bucket" compared with Ontario Hydro's yearly output of more than 128 billion kilowatts, she says.

In addition to being economically viable, the sawdust-as-biomass process also has an environmental component.

Sawmill waste is currently buried, which experts say may have detrimental effects on the surrounding ecosystem. Although extensive studies on the ecological effects of burning biomass in co-generation plants have yet to be conducted, preliminary research suggests that such a process would not produce nearly the airborne emissions that burning fossil fuels does.

In addition, disposing of the ash produced by burning presents far less of a problem than disposing of the sawmill waste itself.

Fox views the Geraldton pilot project as one with long-term implications.

"It could provide a source of income for the community and further its economic independence. And by demonstrating the potential economic and environmental benefits of using forest biomass as a form of energy, it could set an example for the rest of Ontario to follow."

He does, however, recognize a major impediment to implementing such a plan — Ontario Hydro owns the province's energy-supplying infrastructure. "The feasibility of putting the process into action is entirely bound to the co-operation of Ontario Hydro," he says.

This project is supported by Forestry Canada's Energy from the Forest program. □

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NOTICES

Protect your back

Retired human biology professor John Powell is once again offering his back exercise program. Two courses, one for newcomers and one for returnees, are being offered this semester, beginning March 15 and running Tuesdays and Thursdays. For more information or to register, call Gisele MacNeil at Ext. 2133.

Hunger research

The Seventh Annual Hunger Research Briefing and Exchange runs April 13 to 15 at Brown University in Providence, R.I. This year's theme is "Hunger and Develop-

ment: Balancing Actions." For details, see the conference section of the International Education Services InfoCentre on Level 4 of the University Centre.

Children and allergies

The Parent Teacher Organization at James McQueen Public School in Fergus is sponsoring an environmental education program March 30, focusing on "The Effects of Food and Environmental Allergies on Children." Guest speakers are Karin Cremasco and Sandra Starr. The discussion begins at 7 p.m. in the school gymnasium. Tickets are \$3 and are available at the Stone Store in Guelph or at the door. For more information, call 843-3636.

Guitarist performs

Classical guitarist Sean McInnis performs works by Giuliani, Bach, Albeniz, Ponce, Somers and Barrios March 12 at 7:30 p.m. at Chalmers United Church. Admission is \$7 general, \$5 for students and seniors.

French lecture

University of Montreal French studies professor Gilles Marcotte, who received an honorary doctor of letters degree from U of G last spring, will be on campus March 28 to give a talk in the Department of French Studies. It begins at 8 p.m. in Room 316 of the MacKinnon Building. His topic is "Petite anthologie préemptoire de la littérature québécoise."

Essay contest

The Wellington County Historical Society is again sponsoring an essay contest. This year's theme is "Social Activities in the Church, Home or School." Topics might

include spelling bees, baseball teams, Christmas concerts and box socials. Essays should be at least 500 words. Submit entries by the end of April to the society at PO Box 5, Fergus N1M 2W7. For more information, call Ian Easterbrook at 843-6576.

Phone volunteers needed

Male volunteers are needed to staff the phones for the men's helpline, a confidential crisis line for men in need of support. For details, call Barrie Browne at 763-5506.

SFU seeks nominees

Simon Fraser University's Institute of the Humanities seeks nominations for its Thakore Visiting Scholar Award. Candidates must have made outstanding contributions in the areas of social justice, racial equality, religious harmony and concern for a positive balance between industry and environment. For more information, call Jerry Zaslove at 604-291-4868. □

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Office of Research seeks leader for OMAF animal program

The Office of Research is seeking nominations and applications for the position of leader of the animal program of the Ontario Ministry of Agriculture and Food's research and services agreement with the University.

The leader is responsible for planning all aspects of the animal program, including the budget, and will work with an advisory board to assure strategic relevance of the program and help achieve rapid uptake of research findings. The position is a 75-per-cent appointment with a four-year renewable term.

Candidates must have substantial research credibility and experience, along with administrative, interpersonal and communication skills and an ability to foster team research and provide help to individual researchers and research groups.

Applications and nominations, including curriculum vitae and names of three references, must be submitted by March 24 to Prof. Larry Milligan, vice-president for research, on Level 4 of the University Centre. For more information about the position, call Milligan at Ext. 3081. □

JOBS

As of March 4, the following job opportunities were available:

Animal Health Technician, Veterinary Teaching Hospital, temporary leave from May 1 to April 30, 1995. Salary range: \$15.70 minimum, \$19.63 job rate, \$23.55 maximum.

Accounts Administrator, Continuing Education, secondment or temporary leave from April 4 to Sept. 30/94. Salary range: \$14.44 to \$16.13.

Assistant Internal Audit Manager, temporary leave on a two-year contract. Salary range: \$33,783 minimum, \$39,695 normal hiring rate, \$42,229 midpoint.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900.

CLASSIFIEDS

FOR SALE

1986 Mazda RX7, air conditioning, upgraded sound system, 134,000 kilometres; 1988 Jeep Cherokee, Ext. 2111.

1989 Ford Escort LX, 37,600 km, power steering and brakes, AM/FM cassette, remote mirrors, certified, Cheryl, Ext. 3908 or 836-9989.

Large and extra large dog crates, rawhide products and pet foods, Central Animal Facility, Ext. 4309.

Bone china, few pieces of Aynsley Louis XV, setting for eight of Royal Doulton Melrose and Coalport Indian Tree, 822-0764.

FOR SALE

Woman's brand-new Boulet western boots, size 6 1/2, Mary, Ext. 4309.

Ten-year-old bay TB gelding, professionally trained, excellent jumper/event horse, Colleen or Sue, 856-9178.

FOR RENT

Roomy furnished one-bedroom basement apartment, 20-minute walk to campus, share laundry facilities and garden, air conditioning, \$550 a month includes utilities, cable TV and parking, available April 1, 821-1792.

FOR RENT

Large modern home on Vanier Drive, 20-minute walk to campus, available May 1, \$1,200 a month plus utilities, David, 763-8820.

Two-bedroom two-storey brick house to sublet for summer, close to downtown, \$600 a month, 824-9366.

WANTED

Dressmaker's dummy, 836-3463.

Non-smoking female teacher seeks apartment in Guelph home or will house-sit, Bonnie, 853-2920 days.

Four-drawer filing cabinet for department use, preferably with a lock, Ext. 2280.

Furnished three-bedroom house for visiting professor and family from New Zealand from August 1994 to January 1995, close to University and primary school preferred, Ext. 3695 or 787-2211 after 7 p.m.

9 x 12 interoffice envelopes, send to University Communications, Level 4, University Centre.

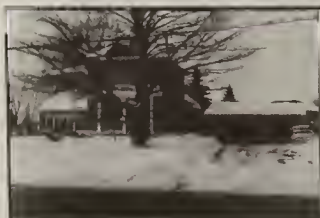
AVAILABLE

Early-childhood education teacher will provide day care in home for children of all ages, flexible hours, hot meals, snacks, Waverly Drive area, Christine, 823-0720 after 7 p.m.

Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing by Wednesday at noon.

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CALENDAR

THURSDAY, MARCH 10

Concert - Contralto Patricia Hanton-McCord and pianist Brian McDonagh perform at noon in MacKinnon 107. Admission is free.

Lecture - Music student Heather Ford discusses "Rimsky-Korsakov: From Nationalism to Conservatism in 19th-Century Russian Music" at 2 p.m. in MacKinnon 203.

Women and Development Lecture - Lina Fruzzetti of Brown University looks at "Equity in Development: Gender and National Reconstruction" at 7 p.m. in OVC 1714.

Concert - Guitarist Sean McInnis, a graduate of U of G and a master's student at McGill University, gives a free concert at 8 p.m. in the Eccles Centre.



Guitarist Sean McInnis performs March 10.

WEDNESDAY, MARCH 16

Third Age Learning - This lecture series continues at 10 a.m. at the Arboretum Centre with retired English professor John Bligh on "Critical Rationalism" and at 1:30 p.m. with a panel discussion of "Meech Lake and Charlottetown: The Quest for Consensus," chaired by Prof. Fred Vaughan, Political Studies.

Food Science Seminar - "Vero Cytotoxic E. Coli Infection on Ontario Dairy Farms" is the topic of Prof. Jeff Wilson, Population Medicine, at 1 p.m. in Food Science 202.

Biochemistry Seminar - Graduate student Emmalee Marshall considers "Osmoregulation of ProP Activity: Elucidating the Roles of Ion Coupling and the Carboxyl Terminal Domain" at 1:10 p.m. in MacNaughton 222.

Zoology Seminar - Mike Rosenzweig of the University of Arizona considers "The Geographical Signal in Species Diversity" at 4 p.m. in Axelrod 259.

Off-Campus Housing Session - Karen Walker of Student Housing Services provides information about living off campus at 6 p.m. in the Off-Campus Housing Office in Maritime Hall.

THURSDAY, MARCH 17

Concert - Student soloists give a free noon-hour concert in MacKinnon 107.

Economics Seminar - "Why Are Women So Happy at Work?" That's the topic of Andrew Clark of CEPREAP in Paris at 4:10 p.m. in MacKinnon 132.

FRIDAY, MARCH 18

Nutritional Sciences Seminar - "Folate Absorption and Metabolism: Applications of Stable Isotopes" is the topic of Jesse Gregory of the University of Florida at 11:10 a.m. in Animal Science/Nutrition 141.

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Sunday 11 a.m. - 5 p.m.

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MONDAY, MARCH 14

Off-Campus Housing Session - Iris Lambert of Student Housing Services provides information about living off campus at 7 p.m. in the Lambton games room.

TUESDAY, MARCH 15

Our World - "Challenges and Struggles of the People of Southern Sudan" is the topic at 12:10 p.m. in UC 442.

Veterinary Microbiology and Immunology Seminar - Charles Czuprynski of the University of Wisconsin discusses "Influence of Interleukin-10 and Interleukin-12 on Resistance to Intracellular Pathogens" at 3 p.m. in OVC 1715.

Physics Seminar - Christine Wilson of McMaster University presents this year's CAP undergraduate lecture on "Millimetre-Wave Radio Astronomy: Measuring Gas in Galaxies" at 3 p.m. in MacNaughton 113.

Information Session - The Office of Research will provide information on the National Research Council's program for women in science at 4:10 p.m. in OVC Learning Centre 1715.

Off-Campus Housing Session - Iris Lambert of Student Housing Services provides information about living off campus at 6 p.m. in the Off-Campus Housing Office in Maritime Hall.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thombrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek - A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

On Thursdays, Women's Spirituality meets at 12:10 p.m. in UC 335 and the Lutheran Lunch Bunch of the Lutheran Students' Movement meets at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533.

Betty Bean Kennedy and Linda Reith look at the evolution of ritual within the Guelph Unitarian Fellowship March 13 at 10:30 a.m. at the fellowship on Harris Street at York Road. Everyone is welcome.

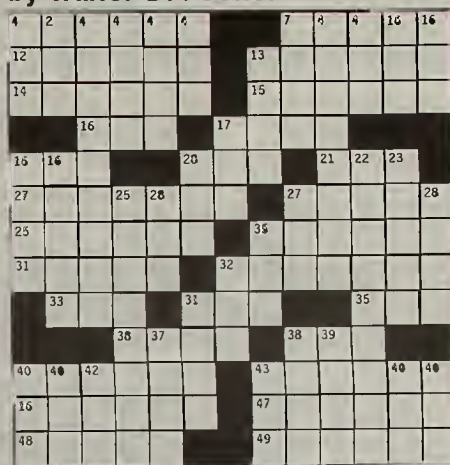
Multifaith calendar

In Islam, March 13 is Eid-ul-Fitr, the Festival of the Breaking of the Fast, celebrating the end of Ramadan.

In Zoroastrianism, Ghambar Hamaspahmaedem runs from March 16 to 20, a time of celebrating the creation of human beings and remembering souls who have passed away.

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Canadian Criss Cross by Walter D. Feener



ACROSS

1. — corpus
7. Bedaub
12. Delphic seer
13. Money market
14. Letter seal
15. With milk: Fr.
16. Dodecanese island
17. TV LAWYER FROM B.C.
18. Mountains: abbr.
20. Koppel or Danson
21. Spanish gold
24. Make obsolete
27. Shore bird
29. Casual wear
30. CANADIAN OFFICIALS
31. Greek S
32. Diane and Tom
33. Edible seed
34. Pear-shaped fruit
35. ISTHMUS NEAR MELVILLE PENINSULA
36. Tramp in mud
38. Noah's ship
40. The borrower
43. Bricklayer's tool
46. Stem coverings
47. German silver
48. ... we stand on — for thee! (O

DOWN

1. Ad —
2. Altar
3. Area behind the proscenium
4. Give back sound
5. Malt products
6. Solidify
7. Bad tasting
8. CANADIAN P.M. BRIAN
9. Period of time
10. — was saying
11. Soak flax
13. Data transmission speed unit
17. social insect
18. Bryophytic plant
19. Bell-shaped flower
20. Gridiron scores
22. "The Bridge on the —"
23. Musical drama
25. HAMILTON UNIVERSITY
26. QUE. CITY
27. Stitch
28. Fin ending
30. Kind of doll
32. Drink slowly
34. Golf cry
37. Weigh down
38. Singer Guthrie
39. Holds up
40. Man's best friend
41. Medieval shield
42. Bikini part
43. Kind of dancing
44. Summer: Fr.
45. Solimization syllables

For crossword solution, see page 4

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SATURDAY, MARCH 12

The Arboretum - Maple Syrup Days run today and tomorrow and continue weekends until the end of March. Meet at the nature centre between 9:30 a.m. and 3:30 p.m.

Concert - Stephen Fearing performs at the Bullring at 9 p.m. Tickets are \$8 in advance at the UC box office, \$10 at the door.

Courting success

Mentors keep basketball team shooting for the top academically

by Maurice Oishi
University Communications

Making sure basketball players score points in the classroom as well as on the court isn't the concern of the average fan. But, then, Prof. Ken Grant isn't your average fan.

Grant, a faculty member in the Department of Economics, is academic adviser to the Gryphon men's basketball team in a mentoring program he launched in 1990. It's based on a philosophy Grant shares with basketball coach Tim Darling — that the players are students first and athletes second.

Grant started the mentoring program as an offshoot of the Sixth Player Club, a booster club he also set up four years ago. Although rooting for the team and raising

funds are the major thrusts of the 110-member club, supporting the team goes beyond pompoms and cow bells.

The mentors are typically senior faculty members. "It's a really nice combination — the two complement each other well," says Grant. Each player is assigned to a mentor in his first year on the team. In later years, players can choose from among all the mentors.

Mentor Prof. Phil Sweeny, Microbiology, a former varsity swimmer himself at Acadia University, understands just how demanding it can be for athletes to earn a university degree.

"They have to put in anywhere from two to five hours of physical activity every day," he says. "You can fall behind, you can miss

classes, miss assignments. It's really a discipline challenge. And other students have no idea what they do."

He notes that the stereotype of the "dumb jock" is wide of the mark. "They have to be efficient users of their time," he says.

Academically talented

Former basketball Gryphon Tim Mau, a CIAU all-star and nominee for a Rhodes Scholar, is now doing his PhD at Oxford University. And the current team counts two President's Scholars among its members. "We have one of the more academically talented teams in the league," says Sweeny.

The role of mentor begins with simple basics like adjusting to the University environment, program planning and time management, and carries over to offering the occasional psychological lift and sometimes a chat over lunch at the Faculty Club.

Rookie forward Jeff Erskine appreciates both the help with course selection and the constant interaction he shares with mentor Brenda Whiteside, secretary of Senate. "It's nice to know that someone's worried if things are going wrong for you," he says.

The program is voluntary for the players, says Grant. Every semester, the academic performance of each player is monitored and, if it's unsatisfactory, the player gets a call from a mentor.

"If the players wish to ignore our suggestions, they can," he says. "They're students like any others."

But there are high expectations

for athletes to pay attention to the daily rigors of academia, he says. "Both Coach Darling and I agree about this: If a player isn't acting professionally, he'll hear from us."

The ultimate and only sanction against a player for poor academic performance is suspension from the team.

The mentors are also involved in the recruiting process, meeting with students and parents. Assurances of the strengths of Guelph's academic program and the expectations placed on players are a big draw for the parents of prospective players.

Getting the best education was a priority for both Erskine and his father, Joe, of Meaford. "Guelph was the only university that offered the (mentoring) program," says Joe Erskine.

No uncertain terms

When the Erskines met with the faculty mentors, they were impressed. "They explained the program and they put it very candidly about basketball and what priority it has with the school," says Joe Erskine. "In no uncertain terms, Jeff was told that if he wasn't up to speed (academically), he'd have to put basketball aside until he got his grades back up."

Grant is pleased the mentoring program has earned recognition from parents. "I don't think I'm being immodest when I say that, with the all-around support, we have one of the most complete basketball programs in the country." □

PEOPLE

McDonald named to OMAF committee

Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology, has been named to the new Minister's Advisory Committee on Rural Development by the Ontario minister of agriculture and food. The committee will review existing rural development issues and initiatives and make recommendations. McDonald has also been named to the board of directors of *PEACE* magazine.

Power in food system focus of talk

Prof. Tony Winson, Sociology and Anthropology, spoke on "The Structure of Power in the Canadian Food System" at a conference on "Decision Making and Agriculture: The Role of Ethics" at Nova Scotia's College of Agriculture.

Anthropologist speaks in San Diego

Prof. Marta Rohatynskij, Sociology and Anthropology, presented a paper at the annual meeting of the Association for Social Anthropology in Oceania in San Diego last month. Her paper was entitled "Solicited and Unsolicited History: The Transformation in Ömie Self-Presentation."

Horticultural science history commissioned

Prof. Sam Loughheed has been appointed professor emeritus in the Department of Horticultural Science. The department has commissioned him to write a history of horticultural education at U of G.

Grodzinski lectures at NASA

Prof. Bernard Grodzinski, Horticultural Science, presented a series of lectures on "Plant Growth in Closed Systems" to the life sciences research group at the Kennedy Space Centre in Florida.

Pathologists provide travel support

Baljit Singh, a PhD student in the Department of Biomedical Sciences, has received a research travel award from the American Association of Investigative Pathology to present a paper at the association's experimental biology meeting in California in April. Title of the paper is "Escherichia Coli-Derived Lipopolysaccharides Mobilize the Globular Surface Coat of Pulmonary Intravascular Macrophages of Sheep." □

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FIRST GLANCE

Welcome to College Royal!

OVC names two dean candidates

Two OVC faculty have been named candidates for the position of dean to succeed Dean Ole Nielsen — Prof. Alan Meek, Population Medicine, and Prof. Alastair Summerlee, associate dean.

Both candidates will give a public lecture to discuss their vision for OVC. Summerlee will speak March 28 at 9:10 a.m.; Meek will speak March 31 at 2:10 p.m. Both talks are in Room 1714 of the OVC Learning Centre. A discussion period will follow.

Academic freedom is on the table

A panel discussion on "Academic Freedom and Harassment/Discrimination Prevention Policies" is scheduled for March 21 from noon to 1:30 p.m. in Room 103 of the University Centre. Panelists include Prof. Jay Newman, Philosophy; M.Sc. student Avinash Singh, Crop Science; University of Windsor law professor Emily Carasco; and University of Waterloo philosophy professor Judy Wubnig.

Gryphons score

Congratulations to the men's hockey Gryphons, who placed second in the national CIAU championship in Toronto this weekend. Well done!

Inside:

Guelph top choice for growing number of applicants 3
Students shoot for better teaching 485

Thought for the week

Life shouldn't be printed on dollar bills.

Clifford Odets



She sweeps them off their feet

And here they do the same for her. Pauline Thompson, housekeeper of Mills Hall and de facto den mother of the hall's 160 residents, says the respect she receives makes an otherwise demanding job worthwhile. Clockwise from lower left are Mike Holland, Dave Pye, Mike Van Steendelaar, Paul Eldridge and Craig Bongard. See story on page 3.

Photo by Maurice Oishi, University Communications

Senate to play key role in strategic planning

Senate has a key role to play in the strategic-planning process now under way to identify U of G's strengths and weaknesses, to review its mission and to advise on future directions.

President Mordechai Rozanski gave assurances last week that Senate will have an opportunity to debate the Strategic-Planning Commission's (SPC) interim report, which is expected to be completed this summer. "As for the final report, it goes without saying that Senate will deal with all recommendations within its jurisdiction," Rozanski said.

SPC chair Prof. Bev Kay, chair of the Department of Land Resource Science, says the president has asked him to give an SPC progress report at each Senate meeting. The first report was to be given at Senate's March 15 meeting. (Watch for coverage in next week's *At Guelph*.)

"The strategic-planning process will be successful only if it involves decision-making bodies at an early stage," said Kay. "Senate's comments are absolutely vital to this exercise. And ultimately, of course, Senate will have to decide the fate of many of

SPC's recommendations."

When the strategic-planning process began, Rozanski indicated it would be as open and consultative as possible and would function within the existing governance system.

"SPC is totally committed to that ideal," said Kay. The commission will make its final report only after widespread community discussion and response, he said.

Intense consultation is expected

to take place in the University community early in the fall. SPC has been asked to submit its final report to the president by Nov. 30.

The strategic-planning process was launched by Senate in the fall of 1992 when the Senate Committee on University Planning struck a 13-member Academic-Restructuring Committee (ARC) to map out a blueprint for change in Guelph's academic structure.

Formation of a strategic-planning

process was also one of the conditions of the June 1993 social contract agreement. Under the agreement, it's expected that the process will, over time, bring expenditures in line with funding and possibly result in recommendations to consolidate or otherwise restructure programs.

When the president struck SPC in October 1993, ARC's membership and work were folded into the commission. □

Pension sessions to discuss merger

The Pension Reform Implementation Group (PRIG), along with Human Resources and the Advisory Committee on Pensions and Benefits, will hold pension information sessions in late March.

The one-hour sessions will provide an open forum to discuss an opportunity to merge the University's pension plans. Supervisors are encouraged to support the participation of their employees.

To ensure that adequate space is available, register for one of the sessions listed below by calling Norma Harrington in Human Resources at Ext. 6991. Additional sessions will be arranged if required.

The sessions will be led by PRIG member

Sheena Bamsey of the OVC Computer Group and Kathleen Hyland of Independent Study, a member of the Advisory Committee on Pensions and Benefits.

Retirement and non-professional plan members

■ March 29, noon, OVC Learning Centre 1714
■ March 31, 2 p.m., MacNaughton 113

Professional plan members

■ March 28, noon, OVC Learning Centre 1714
■ March 30, 9 a.m., MacNaughton 113

All plans

■ March 28, 9 p.m., OVC Learning Centre 1714

People unable to attend the session scheduled for their plan or who are uncertain which plan they belong to are welcome to attend any session. □



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by David Weagans
Gordon Coulthart

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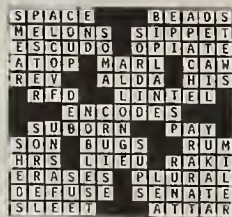
822-8950

Premiums lose tax exemption

Life insurance premiums are no longer exempt from taxation following the recent federal budget.

Effective July 1, the premium paid by U of G towards the first \$25,000 of life insurance, which was formerly income-tax exempt, will be taxed, says Vince Pellegrino of Compensation and Benefits in Human Resources.

This means that employee taxable benefits will increase by about \$25 in 1994 and \$50 in future years, based on the current life insurance arrangement, he says. □



Guelph civic centre will promote use of tobacco products

Two respected members of U of G's faculty, Profs. Jim Stevens, Physics, and Terry Crowley, History, recently wrote to members of the University community to urge support of the Guelph civic centre. Because I share with these colleagues the desire to see a strong cultural base in this city, I wish I could support this campaign. Unfortunately, I cannot.

Stevens and Crowley neglected to remind members of the University that the proposed centre will bear the name of a tobacco manufacturer and will thereby promote the continued use of the vicious poison tobacco.

Other communities in the world have successfully replaced tobacco sponsorship by enlisting other corporate sponsorship and by establishing private and government-supported funds. To condone the continuance of tobacco sponsorship is to condone the main purpose of such sponsorship, which is to promote the entrapment of new addicts among youth.

For this reason, I not only cannot support the centre financially, but I would also never patronize a centre that is funded by — and therefore promotes — the tobacco industry.

Scientific data show that tobacco causes addiction, death and

destruction and that tobacco advertising, including sponsorship, promotes the use of tobacco by youth by appealing to legitimize and glamorize it.

The Ontario Ministry of Health recently published a flyer called "A Parent's Guide to Kids and Smoking" that reminds the reader that smoking kills 13,000 people a year in this province alone. That works out to about 37 people a day or one every 40 minutes.

The industry's successful advertising thrust directed at females has now achieved the "milestone" of making the occurrence of lung cancer in women as high as breast cancer.

It is widely known that the tobacco industry's systematic response to such data is simply to deny not only that tobacco is harmful, but also that sponsorship promotes perpetuation of this dis-

gusting addiction.

But the international scientific data — and plain common sense — make a mockery of the proposition that an industry that is aware that its survival depends on getting new smokers addicted, and an industry that has access to the most sophisticated market-analysis techniques, would invest millions in sponsorship and advertising directed at youth if it did not achieve this end.

Indeed, the industry's financial officers would be considered fiscally irresponsible if the enormous investments were not directed at ensuring the manufacturers' future in this way.

In a sophisticated twist, the tobacco industry has tried to argue that advertising cannot be made illegal as long as sale of the product is not illegal, knowing full well, as we all do, that prohibition

doesn't work and that no government would propose it.

But as society evolves, our view of taboos changes. There used to be a taboo against women entering certain professions such as engineering, a taboo against discussing euthanasia and so forth. Tobacco is the societal milestone that broke the taboo against preventing advertising for a "legal" product that kills when used as recommended by the advertiser.

Some politicians, especially in tobacco-industry cities such as Guelph, tend to support such denial. For a University community to similarly treat scientific data with such disdain and to sell its soul to the highest bidder would be unworthy and inappropriate.

Prof. Stan Blecher
Department of Molecular
Biology and Genetics

Use other fields as resources to assess teaching

I was glad to see the discussion paper in *At Guelph* March 2 on "Providing Evidence of Teaching Quality." Raising awareness of this topic is essential to examination and change.

I hope that in looking at providing evidence of teaching quality, the debates on approaches, processes and methods from other fields of inquiry will be considered as resources.

In the *International Journal of Lifelong Education*, Vol. 12, No. 3, Rogers summarizes the similarity of trends in adult education and extension and the difficulty of diffusing new understandings to practitioners, suggesting each may learn from the other.

It is now widely accepted in these fields that knowledge can-

not be transferred. Each learner has to create it. There has been a shift in emphasis from teaching to learning. Studies have shown that learning styles and approaches vary among individuals. Common to everyone is that learning comes from active involvement in searching for knowledge, understanding, meaning and mastery over skills to meet their own learning needs.

As understanding grows of how learning can be "assisted," the role of teacher/facilitator/educator will be clearer (for evaluation purposes). Rogers suggests that professionalism in the field of adult education involves helping learners become self-reliant, coming into a situation where learning is happening and asking how their

personal experience and insights can help them solve their own tasks. This represents a huge shift away from expert to interactive and participatory models for the educator.

Although existing models will continue to have their place in approaches to learning and development, a new set of attitudes and a willingness to listen, learn and change will be required of those in the learning transaction. I hope that in asking the question "Who is a peer?" in examining teaching quality, a wide resource base will be sought, including other fields involved in innovations in the inquiry into learning.

Hilary Sullivan
Department of Rural
Extension Studies

GRAD NEWS

The final examination of Andrée Quesnel, a D.V.Sc candidate in the Department of Clinical Studies, is March 25 at 9 a.m. in OVC Learning Centre 1714. The thesis is "A Descriptive Study in Feline Seizure Disorders." Her adviser is Prof. Joane Parent.

Interested members of the University community are invited to attend. □

Basics of Internet explored

Computing and Communications Services (CCS) presents a satellite teleconference called "Exploring Internet 2... Back to Basics" March 31 from noon to 2 p.m. in Room 103 of the University Centre.

A sequel to the "Exploring Internet" teleconference held in December, it will provide an introduction to Internet, beginning with such basics as modem and communications software and moving on to an explanation of connectivity.

Demonstrations of selected features for the beginning user will be emphasized.

Teleconference leader is Elizabeth Lane Lawley, founder of Internet Training and Consulting Services and co-author of *Internet Primer for Informational Professionals*.

For more information, contact Dave Bruce in CSS, Ext. 6352 or dbruce@gonzo.cs.uoguelph.ca. □

APPOINTMENTS

Prof. Alan Filewod will be acting chair of the Department of Drama for one year beginning July 1 while Prof. Ric Knowles is on administrative leave.

Prof. David Farrett will be acting chair of the Department of History for one year beginning Aug. 1 while Prof. Eric Reiche is on administrative leave.

Ron McKinnon will be acting chief librarian from Sept. 1 to Aug. 30, 1995, while John Black is on administrative leave. □

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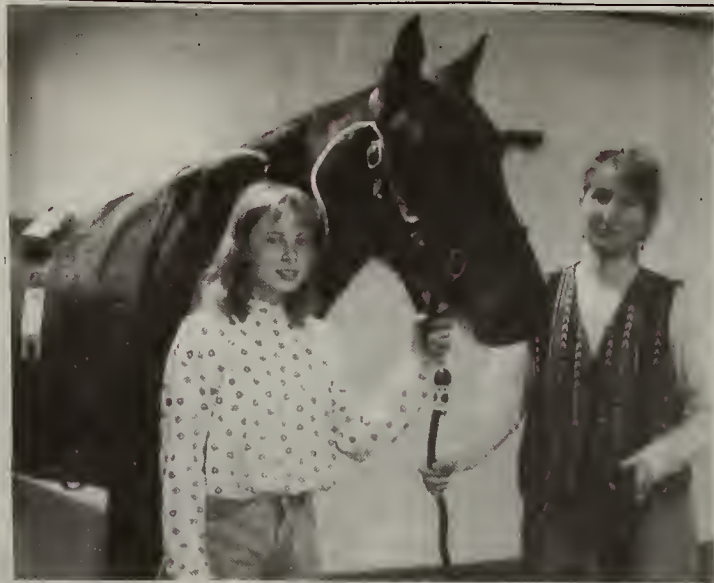
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Mucking about

Susan Raymond, an aerobiology researcher at the Equine Research Centre, helps Alison Groenewegen of College Avenue Public School prepare her Grade 8 science fair project — a study of air quality in ventilated and non-ventilated horse stalls before, during and after mucking out. The

haller of mare Snow Nukes is fitted with a dust sampler to collect air samples. This May, U of G will play host to hundreds of budding young scientists like Groenewegen when they come to campus for the 1994 Canada-Wide Science Fair.

Photo by Kelly Counsell, Equine Research Centre

U of G first choice for growing number of high school students

High school applications for fall 1994 reflect a growing interest in Guelph as the top choice for a university education.

The Ontario Universities Application Centre reports a 7.1-per-cent increase over last year in the number of secondary school applications that select U of G as number-one choice.

Just as significant, says Prof. Constance Rooke, associate vice-president, academic, is an 11.1-per-cent increase in the number of secondary school first-choice applications to Guelph's bachelor of science program.

"That's very good news for us,"

she says. "It reflects the reality of the quality of our science programs. The information is out there for students to consider us first."

There was a 2.3-per-cent drop in the total number of secondary school applications Guelph received for first-semester admission — down 259 from last year's 11,057. "But the first-choice number is the one we are most interested in," Rooke says.

Grade cutoffs will be decided in May, and letters of acceptance will go out June 16. The students then have two weeks to respond. □

FOCUS

She makes a clean sweep of Mills Hall

by Maurice Oishi
University Communications

Housekeeping in Mills Hall — a task some might consider akin to cleaning up after a bull in a china shop — requires as much devotion as it does soap.

Cleaning the last all-male residence on campus may demand the patience of Job, but that's only one of the attributes that housekeeper Pauline Thompson brings to work each morning. Ask Mills residents how they feel about her and the responses include words like "loyalty" and "respect."

"The best way to describe her is that she's a mother figure around here," says Mills Hall resident Brad Whittick. "She's just like a mother, but she doesn't give you hell."

Thompson, a 21-year campus veteran and the only housekeeper for the hall's 160 residents, "brings a tremendous amount of energy to a challenging job," says Janet Morrison, manager of Mills and Macdonald halls. "She's very

caring and concerned for the students. She's very loved, almost revered." And that makes Morrison's job easier. "They'll clean up for her and look out for the place with her there."

Thompson agrees: "I can tell them to get a mess cleaned up, and usually they will. Mind you, it doesn't always work."

Although she admits "you have to have a strong stomach" to clean house in Mills, she says talk of mess and damage in the residence is exaggerated. And she has never heard any rude talk to her face. "If they're turning the corner, they say: 'Excuse me,' and what they were saying stops."

The sense of community that is a hallmark of Mills life is due, in part, to Thompson, says Whittick. "She doesn't just come in here to work. She relates to everyone and she knows most everyone's name. And she sticks up for us."

Whittick, once kicked out of Mills for possessing a half-keg of beer, says that after the incident, Thompson offered him a room in her home. "There are friends," he says, "but that's something you wouldn't expect from someone who cleans up after you."

Kevin Seabrooke has lived in Mills for three years, arriving just before Thompson took up her post. "She brought a family attitude to Mills," he says. "She really is the backbone of the residence."

This is Seabrooke's last year in Mills — next year, he's moving off campus. He'll miss Thompson, he says. Asked if he'll miss her more than his own mother, he replies: "I guess I should say no, but my mom never comes to clean my room."

As for Thompson, pride in her job and the students she works among is the first explanation she offers to explain her devotion to the men of Mills. Pressed further, though, she explains that all three of her sons died at different but young ages. "Maybe that's why I like the boys so much," she says.

The feeling's mutual, says Seabrooke. "It's not so much that she commands respect — she just deserves it." □

Landscape architects aim to make national parks more user friendly

The federal government has enlisted the help of the School of Landscape Architecture to help make Canada's national parks more user friendly.

The project, being co-ordinated by the school's director, Prof. Jim Taylor, is designed to enhance Parks Canada's Visitor Activities Management Process (VAMP).

Taylor says it marks a new thrust for the federal department, which previously spent most of its energies preserving the ecological and environmental value of Canadian parks. "Human interaction with the environment by park users was not focused on," he says. But now that's poised for change. The school and the Landscape Research Group at Guelph have received a research contract from Parks Canada to find ways to improve parks, bearing in mind the visitor as well as the environment and design.

It's actually the second phase of the project. Parks Canada has already completed the first phase, which was documented in a report called "Management Direction on National Levels of Service: A Feasibility Study."

Along with graduate research assistants Jeff Fraser, Stephen Vincent and Richard Wyma, Taylor is investigating:

- state-of-the-art systems relative to visitor activities and park resource planning;
- the feasibility of using computer visual simulation as an enhancement to VAMP; and
- the feasibility of using techniques such as geographical information systems (GIS).

Taylor foresees GIS ultimately replacing static maps and data. "The public will become more involved in park activities because there will be both ecological sensitivity and visitor experience," he says.

In the future, park users will enter a park office and have the option of viewing various areas of the park on a computer information system, he says. They'll be able to view the park from various angles, including aerial views.

A seminar to discuss developments on this project will be held March 24 at 2 p.m. in Room 1715 of the OVC Learning Centre. □

Canadian history goes south of the border

A new textbook written at U of G has become the first Canadian history text to be published in the United States in decades.

Written by Prof. Terry Crowley, *The Essentials of Canadian History, Precolonization to 1867, The Beginning of a Nation* is being published by the U.S. Research and Education Foundation. It will be used by first- and second-year university students in both Canada and the States.

American interest in Canada is evident in the recent growth of Canadian study centres, says Crowley. Canadian history is now taught at centres such as those in Washington, D.C., Texas, North Carolina and Vermont.

The Essentials of Canadian History traces the main line of the country's development up to 1867. It begins with the aboriginal peoples, their contact with Europeans and the "reper-

cussions for both sets of people of cultural contact," says Crowley. It follows the origins of the francophone settlement — in Nova Scotia in 1604 — through the subsequent eclipse of the francophones by British settlement.

The text is representative of a broader approach being taken by modern history texts, he says. Traditionally, these texts were dominated by politics and diplomacy, but now they have the added larger component of social and economic history. Modern texts also cover immigration, settlement, women, minorities and aboriginal peoples.

The Essentials of Canadian History is the second text Crowley has been involved with. He is also the author of an edited text, *Cleo's Craft, A Primer of Historical Method*, published in 1988. □



Prof. Terry Crowley is author of *The Essentials of Canadian History*.
Photo by Margaret Boyd, University Communications

Making things better: Students, faculty, staff

by Ann Middleton
University Communications

When a group of U of G students decided they wanted to have an impact on the educational system at their university, they didn't just talk about it. They swung into action. The result was a day-long forum in February attended by 125 faculty, students and staff.

The students were concerned that their education wasn't giving them enough opportunities to explore issues and disciplines in depth and to make discoveries for themselves.

"We'd all been thinking about our educational experience," says seventh-semester physical science student Omer Yukseker. "We were asking questions like 'Why is it this way?' and 'What can we do about it?'"

The students met with faculty and Teaching Support Services (TSS) staff to develop a forum with three goals:

- to provide a non-threatening atmosphere for open discussion on teaching and learning issues by students, faculty and staff;
- to further raise the profile of teaching and learning on campus and promote discussion of the issues in the larger University community; and
- to develop suggestions and proposals to improve teaching and learning at U of G.

"Everyone has concerns," says Chris Parent, an eighth-semester biology student and chair of the Senate Student Caucus. "But by getting together, we got the benefit of different perspectives."

Many students believe faculty don't understand the stresses of a semester system, says Parent. Faculty, on the other hand, often say students don't realize teaching

is not their only responsibility. Yukseker notes that the forum underlined structural and financial constraints that students are seldom aware of.

The student organizers received support from deans, student governments, TSS, the Counselling and Student Resource Centre, the associate vice-presidents and several faculty who acted as resource people and facilitators. Profs. Sandy Middleton, Zoology, and Ron Stoltz, Landscape Architecture, served as faculty advisers.

"I thought the forum was very exciting," says Yukseker. "The turnout shows there is interest out there from both sides to make things better. It's a good start. We've raised interest and provided direction."

Adds Parent: "The energy and positive feelings generated show that people here are committed to improving things."

Providing feedback

Participants are providing feedback for a report that will go to the Strategic-Planning Commission, Senate and college curriculum committees. Parent was to make a presentation on the forum at the March 15 meeting of Senate. The students are also working with TSS on a 20-minute videotape and a special issue of *Teaching Notes*.

And it won't stop there, says Parent. Although most of the organizers are graduating this spring, several other undergraduates have expressed an interest in following up the discussion with another event next year. This is just what the organizers had hoped would happen.

"Students shouldn't be complacent and accept poor teaching," he says. "Not only should students expect a lot from their profs, but professors should also expect a lot



Student organizers of the teaching and learning forum line up at the registration desk after checking in 125 participants. From left are Russell Bonduriansky (standing), Chris Parent, Michael Maguire, Omer

Yukseker and Yona Lunskey. Missing is Munira Meherali. Students interested in working on a follow-up event for 1995 should contact one of this year's organizers through Teaching Support Services.

Photo by Ann Middleton, University Communications

of their students. Students respect a course that is intellectually challenging. They get frustrated with poorly organized courses where they need to scramble to find out what the professor wants of them."

Faculty were equally enthusiastic about the process.

"The students really achieved their objective, which was to initiate a University-wide dialogue on the improvement of teaching and learning," says Stoltz, who is also

a teaching support co-ordinator in TSS.

"For the longest time, teaching was a very private act that went on behind closed doors," he says. "I see the forum as part of the evolution of a discussion that is bringing teaching and teaching effectiveness into the open and into balance with research productivity."

The forum began with three speakers addressing different issues in the educational process.

Prof. Barbara Lehman, Mathematics and Statistics, looked at education as a nurturing process.

"I went into teaching because I love helping people learn," she said. "Our job as teachers is to guide, help and encourage. The question is: 'How do we best engage students and faculty in this process?' Our aim is to help students reach their potential."

Lehman said students need to know that faculty care. "And conversely, faculty need to know that students care, that they appreciate their teaching methods and are committed to their own learning." Unfortunately, there are wide differences in how teaching is appreciated across campus, she said.

PhD history student Susan Mulley addressed the question of valuing teaching. Although there are obvious signs that U of G does value teaching, she said, there is also evidence that good teaching is ghettoized.

On the plus side, she pointed to the U of G Faculty Association,

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consider ways to improve teaching and learning

3M and other teaching awards, to the programs run by TSS to help instructors improve their teaching, to the provision that allows professors to choose a teaching track for their career and to student evaluations.

On the negative side, "graduate students know that commitment to teaching can be a deterrent," said Mulley. "They know they must publish or perish."

Teaching is seen as a craft like knitting or needlework that, once learned, becomes automatic, she said. "In reality, teaching is much more an art, which needs constant effort to improve."

As long as teaching is regarded as less important and less prestigious than research, the impact a professor has on hundreds of students is considered less significant than the production of research papers "by the handful," said Mulley.

Locked in roles

Parent discussed communication between faculty and students. Both are locked into certain roles, he said. "We need the courage to interact as individuals and the time to allow for effective teaching and learning. Reflection requires time."

Following the three speakers, the forum broke into small groups that identified a number of issues. The following are some highlights of the discussion:

- Face-to-face encounters are not the only way to communicate with students. One faculty member reported that he spends an hour each day interacting with students on TCoSy, the student computer conferencing system.
- Help labs are used effectively by some faculty to replace some of their office hours. Some students are intimidated by the thought of visiting a professor one on one.
- Better communication between teaching assistants and the faculty who supervise them is needed.
- When it was suggested that new faculty need training in teaching methods, the group stressed that all faculty need training.
- Course evaluations should be administered at about the sixth

week of classes, when there is still time for professors to respond to student concerns.

- No course should stand on its own. Courses must be developed within the framework of Guelph's educational goals.
- An ombudsperson could serve a useful role in aiding communication between class and instructor in cases where there are complaints about teaching.
- Although the need to individualize teaching to meet different learning styles was acknowledged, class size often imposes teaching style.

A panel discussion on different educational approaches included associate academic vice-president Constance Rooke speaking on a systemic approach to education, fourth-year microbiology student Andrea Makkay on evaluation of students, and Prof. Jonathan Schmidt, Environmental Biology, on metaphors that undermine learning.

Rooke would like to see each individual course become part of the overall learning experience so that skills like writing are built into every program. Right now, courses are self-contained and content-driven and not part of an orchestrated curriculum, she said.

The mix of large and small classes in each program should also be carefully plotted so that all students have some small-class experiences, said Rooke. "We can't get away from large classes because of the financial situation, but we could ensure that each student has an appropriate mix of small and larger groups."

Break down walls

Cross-over assignments could also link courses and break down the walls around courses, she said.

Currently, students encounter intellectual conflicts between faculty in different courses. Rooke said an arena is needed where these clashes can be articulated and students have a chance to act out the conflicts, perhaps in a team-teaching situation.

"We need to rethink the semes-

ter," she said. It may, for example, be appropriate in some cases to break the semester into two six-week modules — the first half for lectures and the second for seminar or peer-group learning or computer-assisted development.

Rooke also suggested double-intensity courses, where students would get double credit and explore an area in greater depth than the system currently encourages. "Fewer courses can mean more learning," she said.

One way of weighting courses at different levels would be to switch from a course system to a credit system, she said. Some courses could be worth more credits than others. To graduate, a student would need a set number of credits.

Makkay had some harsh criticism for exams, which she characterized as being "geared to testing memorization skills rather than understanding." Students are so busy cramming, they spend little time really trying to understand the subject, she said. The result is students who are so panicked, they don't look at the connections.

"We are stuffing facts that will soon be obsolete into our students' brains, rather than giving them the opportunity to acquire useful skills," she said.

Makkay criticized a system that rewards students for memorization. "I ask myself why we have multiple-choice exams in fourth year when there are only 15 students in the class. We should be

learning to apply what we've studied in earlier years."

Schmidt's remarks were inspired by overhearing students talking about being "creamed," "hammered" and "murdered" in their exams. Students who use metaphors of victimization to describe themselves sabotage their ability to take action and participate fully in the learning process, he said.

"Victims are not empowered to meet challenges when the challenges are seen as punishment," said Schmidt. "If you surrender responsibility, you don't have to take the blame. Instead, education is perceived to be inflicted. This is very destructive."

But who is responsible for learning, he asked. The professor is responsible for creating and maintaining a stimulating environment where learning can occur, but learning itself is an active process, he said. "The person learning must undertake it." He noted that the Swedish verb "to learn" means "to teach oneself."

Can empower

"As educators, it is our responsibility to provide an environment where the metaphor of victimization is de-emphasized," said Schmidt. "Metaphors can also empower," he said, citing the terms "coach" and "partner" as good metaphors for a teacher.

Following the panel, small groups convened. These are some of the suggestions that came out of their discussion:

- All students should graduate with good writing skills. Designated writing courses in all programs would address this issue.
- A reassessment of the standard structure of instruction is needed to look at such questions as: Is the current structure the most effective one? How can we best encourage individual learning styles?
- All students would benefit from being part of a peer group in first year. Examples of current successful programs include Akademia and Uni-

versity College Connection with its clusters of 20 students in the same program.

- All students should have an opportunity to develop the ability to work in a team. HAFS uses this approach effectively.
- Rigid course boundaries lead to a fragmented education. An interdisciplinary approach would expose students to different points of view and encourage them to make their own decisions.
- The system does not always encourage students to think for themselves. There is too much parroting of information in exams.
- Some students suggested developing ways of evaluating and crediting extracurricular involvements like student government.
- Compulsory introductory-methods courses would give all students the tools of their discipline early in their program.
- Students need opportunities to engage in experiential learning. It was suggested that acting as a teaching assistant in fourth year could be worth a credit.
- A continuum of skills development throughout the academic program is needed.
- The University is responsible for providing an integrative and supportive atmosphere for learning.
- Co-op programs could be used more widely.

At the end of the day, each group was asked to prepare a written report on their discussion. Some of those points are listed above. For more information about the conclusions of the forum, contact Mei-fei Erick in TSS. □



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OUR COMMUNITY

NOTICES

Phonebooks are in

1994/95 Bell Canada telephone books have been delivered to campus. If you have not yet received yours, call switchboard supervisor Arlene Weller at Ext. 4219. Old telephone books can be left at the back doors and loading docks of all campus buildings to be recycled. When all the books have been collected, call waste-management coordinator Laura Rourke at Ext. 2054 to have them picked up.

Scottish colloquium

The annual Scottish Studies Spring Colloquium is scheduled for April 30. One of the highlights will be the presentation of the first Frank Watson Scottish History Prize to

David Allan of Lancaster University. Allan will speak on "The Virtue of History: Enlightening Scotland's Darkest Age." For more information, call Christine Boyle at Ext. 6528.

Deadline moves

The International Development Research Centre has postponed the application deadline for its summer institute in Costa Rica to March 18.

Weeding out toxins

Prof. Jack Alex, Environmental Biology, is guest speaker at the next meeting of the Guelph chapter of the Canadian Federation of University Women March 22. His topic is "Edible Weeds and Possi-

ble Toxicity of Culinary Herbs." The meeting begins at 7:30 p.m. at the Steelworkers' Centre on Dawson Road.

Food drive a success

The third annual OVC '95 food drive in February collected 2,011 pounds of food for the Guelph Food Bank. Each year, the Class of '95 challenges all other years as well as faculty and staff to see who can collect the most food. Top honours went to the Class of '94, which donated 535 pounds of food. That earned them a prize of \$110 for the charity of their choice.

Ground-Water Day

"Ground Water and the Environment" is the focus of an exhibit at the Wellington County Museum and Archives. In conjunction with the exhibit, the museum will hold a Ground-Water Day March 19 from noon to 4 p.m. Special festival day admission is \$1 for adults, \$2 for a family.

Camping it up

The U of G summer camp will resume this summer with a slate of wellness-related and holistic activities for kids six to 14. The indoor/outdoor camp begins July 1. For more information, call camp director Pat Richards in the Department of Athletics, Ext. 2742.

Dog behavior

OVC is offering the advanced course "Behavior Problems of Dogs" March 26 and 27. Aimed at veterinarians, animal behavior consultants and participants in OVC's first course, "How Dogs

Learn," this program will look at causes, diagnosis, treatment and prevention of common behavior problems in dogs. Instructors are Prof. Andrew Luescher, Prof. Don McKeown and M.Sc. student Jack Halip, all of the Department of Population Medicine. For registration details, call Continuing Education at Ext. 3956.

Looking for treasures

The Guelph Spring Festival needs your unwanted treasures for its "Spring Fling" garage sale, to be held April 10 beginning at noon in the Guelph Farmers' Market. To arrange pickup, call Carol Koenig at 824-6222.

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Where there's a will ...

Wills and estate planning will be the topic March 22 at the winter meeting of the Guelph branch of the Mac-FACS Alumni Association.

Nancy Hoffman, an account executive with Royal Trust in Kitchener, will speak on "When There's a Will, There's a Way." The meeting is open to the public and begins at 7 p.m. at the Arboretum Centre.

Topics will include the duties of an executor, probate fees, how to arrange assets to save taxes and what happens if you have no will.

CLASSIFIEDS

FOR SALE

Aluminum dog crate for medium/large dog; bird cage; 20-gallon fish tank, 822-5735 after 6 p.m.

Loveseat, converts to queen-sized bed; two forest green wall-hugger recliners, 856-4046 between 5 and 8 p.m.

1984 Nissan Pulsar NX five-speed with AM/FM cassette, good condition with all receipts, 824-5378.

Pool table, includes accessories and table tennis top, Ext. 4760 or 824-0632.

Reliable computer, 386DX33, 4MB RAM, 52MB 14.3 ms Quantum HD, MB Paradise Video Card, 1.44 and 1.22 FD, 2S1P1G ports, DOS 6.0, George, 823-0047.

Woman's western Boulet boots, size 6 1/2, brand new, Mary, Ext. 4309.

Large and extra large dog crates, raw-

hide products and pet foods, Central Animal Facility, Ext. 4309.

Ten-year-old bay TB gelding, professionally trained, excellent jumper/event horse, Colleen or Sue, 856-9178.

FOR RENT

Room in townhouse for non-smoking female, share with graduate student, Edinburgh and Woodlawn area, parking and laundry, \$260 a month plus half hydro, 824-0572.

May/June sublet in Montreal, close to McGill University, laundry facilities and parking, \$435 a month (negotiable), Ext. 3005 or 514-844-6728.

Large furnished room with walk-in closet in private adult home, private bathroom, use of kitchen and laundry room, 15-minute walk to campus, on bus route, Ext. 2519 or 822-2336 after 6 p.m.

Three-bedroom apartment in 150-year-old semi-detached stone house downtown, extra bedroom in basement, washer and dryer, \$975 a month plus utilities, available May 1, 763-3269.

Three-bedroom house in cul-de-sac near University and Stone Road Mall, \$950 a month, Ext. 6091 or 822-3088 from 5 to 8 p.m.

Roomy furnished one-bedroom basement apartment, 20-minute walk to campus, share laundry facilities and garden, \$550 a month includes utilities, available April 1, 821-1792.

WANTED

Room in house or apartment for non-smoking woman with small dog, mid-April, on a month-to-month basis, Barbara, 824-6015 evenings.

Used Mac computer, David, Ext. 2747 or 8217.

Non-smoking female teacher seeks apartment in Guelph home or will house sit, Bonnie, 853-2920 days.

Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing.

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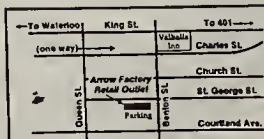


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CALENDAR

THURSDAY, MARCH 17

Concert - Student soloists give a free noon-hour concert in MacKinnon 107.

Rural Extension Studies Seminar - "South Africa Speaks: The Environment, Rural Life, Forced Removal and the Upcoming Election" is the subject of Themba Kepe at noon in MacKinnon 234.

Information-Gathering Session - The Senate Committee on International Activities will hear submissions about U of G's involvement in the Sulawesi Project from 1 to 4 p.m. in UC 103.

Population Medicine Seminar - Prof. Mohamed Shoukri looks at "Space Time: The Neglected Heterogeneity" at 4 p.m. in OVC Learning Centre 1715.

Economics Seminar - "Why Are Women So Happy at Work?" That's the topic of Andrew Clark of CEPREAP in Paris at 4:10 p.m. in MacKinnon 132.

FRIDAY, MARCH 18

Student Print Sale - The Department of Fine Art's annual student print sale runs today and tomorrow from 10 a.m. to 6 p.m. Prints are priced from \$5 up.

Nutritional Sciences Seminar - "Folate Absorption and Metabolism: Applications of Stable Isotopes" is the topic of Jesse Gregory of the University of Florida at 11:10 a.m. in Animal Science/Nutrition 141.

Lecture - Barbara Hodgdon, NEH Professor of Humanities at Drake University speaks on "Romancing the Queen" at noon at the Inner Stage in the MacKinnon Building. This is an interdisciplinary lecture about popular representations of Queen Elizabeth I.

Biomedical Sciences Seminar - Jonathan Hare looks at "In Vitro Degranulation of Equine Pulmonary Mast Cells" at 12:10 p.m. in OVC 1642.

Microbiology Seminar - Jack Gaudle of McMaster University considers "Molecular Regulation of Chronic Inflammation in the Airways" at 3 p.m. in OVC 1715.

Music Lecture - "Gould, Frye and McLuhan: Three Canadian Legacies to the World of Ideas" is the topic of Timothy Maloney of the National Library of Canada at 3 p.m. in MacKinnon 107.

Concert - The Aulos Trio performs at the Macdonald Stewart Art Centre at 8 p.m. Tickets are \$10 general, \$8 for students and seniors, and are available from the Music Department and at the door.

SATURDAY, MARCH 19

College Royal - The annual student-organized open house celebrates its 70th year with a variety of events today and tomorrow.

MONDAY, MARCH 21

Anti-Racism Week - A seminar on academic freedom begins at noon in UC 103. Drew Hayden Taylor discusses aboriginal theatre at 7 p.m. in UC 103.

Off-Campus Housing Session - Iris Lambert of Student Housing Services provides information about living off campus at 6 p.m. in the Off-Campus Housing Office in Maritime Hall.

TUESDAY, MARCH 22

Anti-Racism Week - A workshop on "Racism and International Development" begins at noon in UC 103. A panel discussion on "Making the Links" runs at 7 p.m. in MacNaughton 113.

Economics Seminar - Bo Wandschneider will discuss "Internet for Economists" at 12:10 p.m. in MacKinnon 132.

Physics Seminar - Martinus Veltman of the University of Michigan looks at "Why the Higgs is Important" at 4 p.m. in MacNaughton 113.

Student Involvement and Leadership Series - This biweekly series for student leaders and organizations continues with "Communication: More Than Words Can Say" at 5:10 p.m. in the Eccles Centre.

Off-Campus Housing Session - Iris Lambert of Student Housing Services provides information about living off campus at 6 p.m. in the Johnston tower lounge.

Concert - The Barra MacNeils of Cape Breton perform at 8 p.m. in War Memorial Hall. Tickets are \$18 general, \$16 for U of G students, and are available at the UC box office.

WEDNESDAY, MARCH 23

Anti-Racism Week - Songwriter Faith Nolan gives a free concert at noon in the UC courtyard. A panel discussion of "Racism in the Media" begins at 7 p.m. in MacKinnon 029.

Biochemistry Seminar - John Petrucci of the Department of Chemistry and Biochemistry examines "Use of Dual Radioligands to Study the Interaction of PCBs and Related Compounds with the Ah Receptor" at 12:10 p.m. in MacNaughton 222.

Food Science Seminar - Prof. Dave Stanley looks at "Structure Formation in Foam Dairy Emulsions" at 1 p.m. in Food Science 202.

Lecture - Catherine Nolan of the University of Western Ontario considers "Deconstructing the Row: Non-Serial Aspects of Pitch Organization in Webern's Later Works" at 2 p.m. in MacKinnon 203.

Off-Campus Housing Session - Karen Walker of Student Housing Services provides information about living off campus at 6 p.m. in the Mills fireplace lounge.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100. The ecumenical Open Door Church meets Sundays at 7 p.m. in UC 442.

Midweek - A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

On Thursdays, Women's Spirituality meets at 12:10 p.m. in UC 335 and the Lutheran Lunch Bunch of the Lutheran Students' Movement meets at noon in UC 444.

Womanspirit meets Fridays at 12:10 p.m. in UC 533.

Stuart Dixon will discuss 18th-century Unitarian Joseph Priestley March 20 at 10:30 a.m. at the Guelph Unitarian Fellowship on Harris Street at York Road. Everyone is welcome.

Multifaith calendar

In Buddhism, March 20 is Spring Ohigan, a special time to listen to the Buddha and meditate on the perfection of enlightenment.

March 21 is Naw Ruz, the first day of the Zoroastrian/Persian year 1373 and the beginning of the Baha'i New Year.

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THURSDAY, MARCH 24

Anti-Racism Week - Darimeade, co-founder of the Black Action Defence Committee, speaks at noon in UC 429. At 7 p.m., there will be an open-stage reading in the OTAS lounge on UC Level 5.

Pathology Seminar - "Pathogenesis of Sendai Virus Infection in SCID Mice" is the topic of Colin McKelvie at 11:10 a.m. in Pathology 2152.

Concert - The Early Music Ensemble performs under the direction of Prof. Mary Cyr at noon in MacKinnon 107.

Economics Seminar - Gillette Hall of the University of Toronto looks at the "Impact of the Peruvian Heterodox Stabilization Program on Poverty and Distribution of Welfare" at 4 p.m. in MacKinnon 132.

FRIDAY, MARCH 25

Nutritional Sciences Seminar - "Good Nutrition is More than Nutrients" is the topic of Prof. Craig Alexander at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Graduate student Baljit Singh considers "The Effect of E. Coli-Derived Lipopolysaccharides on the Surface Coat of Pulmonary Intravascular Macrophages of Sheep" at noon in OVC 1642.

Anti-Racism Week - An anti-racism workshop begins at noon in the MacKinnon red lounge.

Interdepartmental Evolution and Systematics Seminar - Prof. Gard Otis, Environmental Biology, speaks on "Morphological Versus Molecular Phylogeny of the Eusocial Bees" at 3:10 p.m. in Axelrod 117.

Concert - The U of G Orchestra and Concert Winds, under the direction of Henry Janzen and John Goddard, perform at 8 p.m. at War Memorial Hall. Tickets are \$5 at the door.

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ACROSS

1. Piece at intervals
6. Necklace
11. Financial windfalls
13. Bit of toast
14. Portuguese coin
15. Sedative
16. Upon
17. Fertilizer
19. Crow cry
20. Speed up
21. Actor Alan
22. Belonging to that man
23. Stop light color
25. Door crosspiece
27. Meke cryptograms
30. Commit perjury
32. Settle a bill
35. Male offspring
36. Neme for a bunny
38. Molasses beverage
40. "48 — (Nolte film)
41. Stead
42. Grape juice liquor
43. Blots out
45. More than one
47. Disarm a bomb
48. Legislative

DOWN

1. Daub on
2. Drive crazy
3. Recess
4. — d'etat
5. Finish
6. Aircraft type
7. Center starter
8. Geronimo
9. Military assignment
10. Meat dishes
12. Organism body
13. Mercenary
18. Document addition
24. Society bud, for short
26. Recipe abbr.
28. Most meganamous

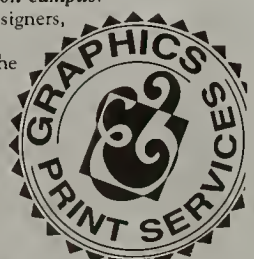
For crossword solution, see page 2

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Campus Days are here again!

For the second year in a row, Campus Days, an information event for secondary school students and their families, will be held over College Royal weekend March 19 and 20.

Campus Days are designed to give applicants to U of G an inside look at learning and living on campus, says Susan Vercruyse, a liaison officer in the Registrar's Office.

"College Royal is an excellent time for applicants to find out what the community is all about," she says.

Vercruyse notes that despite last year's snowstorm, more than 1,800 students turned out for the event.

Applicants can visit campus either day. During both days, they'll have an opportunity to tour the campus and residences and meet with program counsellors, admissions staff and U of G students.

They'll also have a chance to participate in College Royal events.

Campus Days are one of many liaison programs designed to introduce prospective students to campus. Other programs include Toronto Information Night, Fall Preview Day, regular campus tours and the fall liaison program that visits high schools throughout Ontario. □



STUDENT SPEAK

by Justin Diggle

Pre-vet student is China bound

A U of G pre-veterinary student has been chosen to participate in an international delegation to China next month to study veterinary medicine and wildlife conservation methods there.

Krista Halling of Don Mills is the Canadian representative in the leadership-training citizen-ambassador program of U.S.-based People to People International.

"It's a great leadership opportunity and a unique chance for mutual appreciation of each others' veterinary and wildlife conservation methods," she says.

It will be an intensive 16 days. Each of the 20 delegates, most of them renowned experts in their field, will participate in a variety of round-table forums. Each session will be held in a different city. It won't be all work and no play — the delegates will be taken on guided tours of the countryside at each stop.

Halling's specialty is exotic animals, which encompass all species except domestic dogs and cats and farm animals.

She's also interested in learning more about traditional eastern health remedies such as homeopathy, acupuncture and medicinal plants.

"Traditional remedies are very valuable, but they aren't appreciated as much in the West," she

says. "It's healthy to see different aspects."

Halling's résumé will stand her in good stead in this program. As well as maintaining a high academic standing, she participated two years ago in a five-week exchange at the University of Sydney in Australia. Her performance impressed the Australian faculty enough to invite her on this delegation to China.

People to People International dates back to 1956 when the Eisenhower administration established a program to foster goodwill and understanding among citizens of the world. This year, the organization invited the University of Sydney to lead the delegation to China.

Halling says U of G faculty, students and administration have been supportive of her trip, both in terms of encouragement and funding. She had to raise \$5,000 U.S. to participate. On her return, she will share what she learned with fellow veterinary students.

Learning on the job

A job-shadowing program in HAFA is earning kudos from everyone involved.

The program was launched last semester when second-year student Andrea Pavai decided she wanted to reproduce a program she found valuable in high school. In conjunction with Alumni Affairs, she proposed an initiative to get HAFA students and alumni together. A group of 14 alumni were asked to allow a HAFA student into their business for a day.

Pavai believed this on-the-job experience would open the students' eyes to the industry and allow them to put their theory into practice.

Laurie Malleau of Alumni Affairs testifies to the program's success. "It's an excellent oppor-



Krista Halling is off to China next month as part of an international delegation.
Photo by Maurice Oishi, University Communications

tunity for students to get an insight they might not have," she says. These sentiments are echoed by HAFA's faculty. "The faculty has given us 100-per-cent support," says Pavai. "They love it."

She hopes to extend the program next year by allowing more second- and third-year students to participate and by attracting more alumni and outside businesses. Students interested in promoting or getting involved in the program should contact the FACS dean's office.

Hall offers a world of difference

A home with a difference. That's how Jackie Holmes describes International House in Watson Hall. She's the program director for the hall, which 50 students from Canada and around the world call home.

Watson Hall's sense of community and unique programming set

it apart from other campus residences, says Holmes. It's not just a place to live — it's a learning experience, too.

Throughout the year, residents host a variety of cultural events. Last month was the annual "World On a Plate" dinner, the traditional kickoff to International Development Week. Each room in the hall represented a different culture, with the room's residents preparing and serving unique ethnic cuisine.

It was more than just a dinner, says Holmes. "It was a night of sharing knowledge of each land."

The evening also featured a number of guest speakers, including President Mordechai Rozanski. Money raised by the event went to the residence's activity fund.

Demand is always high for spots in Watson Hall, says Holmes. Offers of admission are made on the basis of an essay. Anyone can apply to live there, she says, "but if you aren't interested in global issues, this isn't the place for you." □



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